

Matrox ConvertIP

Installation and User Guide

Part No.: V11579-301-0240 Last Updated: March 20, 2025

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CHAPTER 1

Introduction

This chapter includes the following topics:

- About Matrox ConvertIP
- Matrox safety information
- Supported web browsers and operating systems
- Supported applications

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About Matrox ConvertIP

The Matrox ConvertIP family of products are standards-based transmitters and receivers that enable interoperable, cost-efficient, and scalable networks in Broadcast and Pro AV environments.

- **Broadcast and media applications:** Switching from SDI to IP broadcast networks can be costly and complex. Matrox ConvertIP is a stand-alone SMPTE ST 2110 converter engineered to help you easily transition to IP. Supporting multiple input/output connectivity options, ConvertIP is designed to effortlessly convert ST 2110 IP signals to or from SDI or HDMI. ConvertIP devices also support up to 25 Gbps connectivity allowing for the delivery of uncompressed 4K video over ST 2110.
- Professional AV/IT applications: Matrox ConvertIP is a series of standards-based,
 IPMX-ready encoders and decoders designed for maximum flexibility, scalability, and
 interoperability. ConvertIP provides multiple input/output connectivity options for
 converting SMPTE ST 2110 IP signals between HDMI, HDBaseT, or SDI. ConvertIP
 also supports compressed and uncompressed 4K over IP signal transmission, perfect
 for a variety of workflows—all from a single standalone device.

For more information on the Matrox ConvertIP family of products, see our *website* for a full description of the benefits and features.

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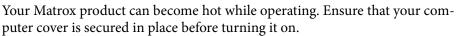
Matrox safety information



To ensure safe and reliable operation of your Matrox product, to avoid personal injury, and to prevent damage to your computer or Matrox hardware, read the following guidelines.

Installation and operation

- Read and retain all instructions. Only use your Matrox product according to the instructions, operating ranges, and guidelines provided in the Matrox user guide and other related Matrox documentation. Failure to follow these instructions could result in damage to your product or injury to the user or installer.
- Don't expose your Matrox product to rain, water, condensation, or moisture.
- Caution: Hot Surface, Do Not Touch





Always turn off your computer, unplug it, and then wait for it to cool before removing the cover of your computer to touch any of its internal parts or to install your Matrox card. Allow hot surfaces to cool before touching your Matrox unit.

Attention: Surface chaude, ne pas toucher



Votre produit Matrox peut devenir chaud durant son fonctionnement. Assurezvous de bien fermer le couvercle de votre ordinateur avant de l'allumer. Éteignez votre ordinateur, débranchez-le et attendez qu'il refroidisse avant d'ouvrir son couvercle pour accéder à ses parties internes ou pour installer votre carte Matrox. Laissez les surfaces chaudes refroidir avant de toucher votre appareil Matrox.

- Static electricity can severely damage electronic parts. Before touching any electronic parts, drain static electricity from your body (for example, by touching the metal frame of your computer).
- When handling a card, carefully hold it by its edges and avoid touching its circuitry.
- Don't stack devices or place devices so close together that they're subject to recirculated or preheated air.
- Don't operate your system or Matrox product near a heat source or restrict airflow to your system, and make sure the ambient temperature doesn't exceed the maximum recommended temperatures. Don't block ventilation holes on your unit or system.

If a power supply (internal or external) was included with your product

- Don't place the external power supply directly on top of the device.
- Only use power supplies originally supplied with the product or use a replacement that's approved by Matrox. Don't use the power supply if it appears to be defective or has a damaged chassis.

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- Any AC-powered product must be connected to a grounded outlet installed by a licensed electrician. Don't defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug doesn't fit into your outlet, consult a licensed electrician to replace the obsolete outlet.
- Make sure that nothing rests on the power cables and that the cables aren't located where they can be stepped on, pinched, or tripped over.
- Don't use damaged power cables.
- Unplug your system or device during lightning storms or if unused for long periods of time.

If your product includes laser-based technology

- The device contains a Class 1 laser product for use only under the recommended operating conditions and guidelines. For more information, see your Matrox user guide.
- Invisible laser radiation may be emitted from disconnected fibers or connectors. Don't stare into beams or view directly with optical instruments.
- Only use optical transceivers originally supplied with the product or use a replacement that's approved by Matrox.
- For more information on laser support and compliance, see your Matrox user guide.

If your product includes a battery

- The battery is non replaceable.
- To dispose of your product, see www.matrox.com/environment/weee.



Repair

- Don't attempt to open or repair a power supply unit (if one was supplied).
- Don't attempt to open or repair your Matrox product.
- If there's a fault with your Matrox product, review your Matrox warranty for more information.

Supported web browsers and operating systems

Supported web browsers

Matrox ConvertIP currently supports Google Chrome and Microsoft Edge only (on Windows and macOS).

Other web browsers may work but have not been fully validated by Matrox.

Supported operating systems

Since you configure Matrox ConvertIP using your web browser (see *Supported web browsers*), there is no specific operating system requirement.

The application Matrox ConvertIP Manager (see *Supported applications*) supports Microsoft Windows 11 and Windows 10 (x64).

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Supported applications

The Matrox ConvertIP devices are a series of stand-alone transmitter and receiver devices, but they are also designed to work with other Matrox applications:

- Matrox ConductIP: Matrox ConductIP is a media routing appliance and software that gives you a real-time, comprehensive view of all media content on your IP network while allowing you to organize devices based on your unique setup.
 - Designed to simplify content distribution in AV networks of any size, ConductIP enables you to manage video, audio, and ancillary data streams, whether they come from native IP devices or are converted from your existing broadcast and ProAV equipment.
- Matrox ConvertIP Manager: Matrox ConvertIP Manager is an executable utility
 application that allows you to manage multiple ConvertIP devices over your network.
 You can connect transmitters and receivers, update multiple ConvertIP devices simultaneously, and more.

You can use Matrox ConvertIP without these added applications, but using them will unlock a greater range of functionality for your transmitter/receiver workflow.

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CHAPTER 2

Matrox ConvertIP Hardware Connections

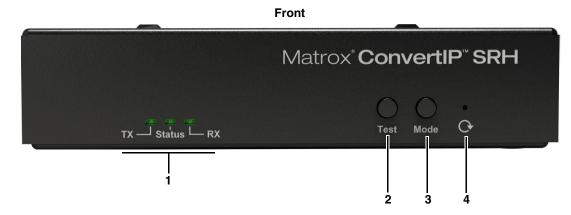
This chapter includes the following topics:

- Connecting your Matrox ConvertIP SRH
- Connecting your Matrox ConvertIP DRH
- Connecting your Matrox ConvertIP DSH
- Connecting your Matrox ConvertIP DRS
- Connecting your Matrox ConvertIP DSS
- Connecting your Matrox ConvertIP SRST
- Connecting your Matrox ConvertIP SRS
- Connecting your Matrox ConvertIP SDM

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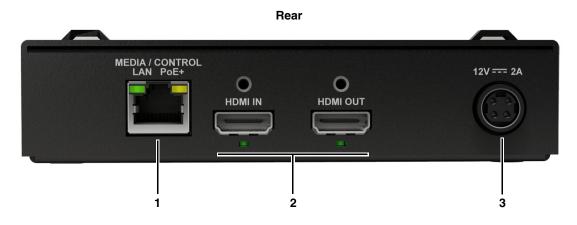
Connecting your Matrox ConvertIP SRH

This section shows the basic button functions and connections for the Matrox ConvertIP SRH device.



	LEDs / Buttons	Description
1	Main LEDs	 TX: When green, indicates the ConvertIP is in Transmitter (TX) mode. Status: When flashing green, the device is encoding or decoding depending on what mode it is in. When solid green, the device is powered on, but idle. RX: When green, indicates the ConvertIP is in Receiver (RX) mode. When ConvertIP is powered up for the first time, it will be in RX mode.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream and test pattern at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the HDMI or SDI cable is good and the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.

	LEDs / Buttons	Description
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.



	Connections	Description
1	MEDIA / CONTROL LAN PoE+	Connect to your media network. You can also power the ConvertIP from this port (Power over Ethernet).
2	HDMI IN	 In TX mode: Connect an HDMI video source to this connector when in transmitter mode. In RX mode: Connection is not used in receiver mode.
2	HDMI OUT	 In TX mode: Not used. In RX mode: Connect an HDMI monitor to show the received ST 2110 or IPMX video signal.
3	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

Connecting your Matrox ConvertIP DRH

This section shows the basic button functions and connections for the Matrox ConvertIP DRH device.

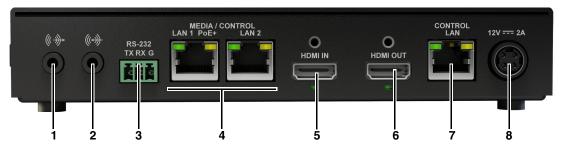
Front



	LEDs / Buttons	Description
1	Main LEDs	 TX: When green, indicates the ConvertIP is in Transmitter (TX) mode. Status: When flashing green, the device is encoding or decoding depending on what mode it is in. When solid green, the device is powered on, but idle. RX: Indicates the ConvertIP is in Receiver (RX) mode. When ConvertIP is powered up for the first time, it will be in RX mode.
2	Test	In TX mode, press and hold for press and hold for approximately 10 seconds and release to output a valid multicast stream and test pattern at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the HDMI or SDI cable is good and the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.

	LEDs / Buttons	Description
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

Rear



	Connections	Description
1	Audio Out	Connect your analog audio output destination.
2	Line In ¹	Connect your analog audio input source.
3	RS-232 TX RX G	To be supported in a future release.
4	Media / Control LAN 1 PoE+	Connect LAN 1 POE+ to your media network. You can also power the ConvertIP from this port (Power over Ethernet).
	LAN 2	Connect LAN 2 to your redundant media network (if available).
5	HDMI IN	 In TX mode: Connect an HDMI video source to this connector when in transmitter mode. In RX mode: Connection is not used in receiver mode.
6	HDMI OUT	 In TX mode: Connect an HDMI monitor to view the HDMI IN video source content. In RX mode: Connect an HDMI monitor to show the received ST 2110 or IPMX video signal.
7	Control LAN	If you want to have media and control on separate networks, connect CONTROL LAN to a network other than your media network. If your media network is static, connect this port to a DHCP-enabled network, and then log in to ConvertIP to set the static IP address.
8	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

1. You must select Line in or Embedded audio in from the ConvertIP web UI.

Connecting your Matrox ConvertIP DSH

This section shows the basic button functions and connections for the Matrox ConvertIP DSH device.

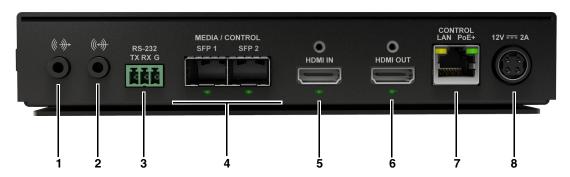
Front



	LEDs / Buttons	Description
1	Main LEDs	 On = TX / Off = RX: Indicates the ConvertIP mode. When on, the device is in Transmitter mode. When off, the device is in Receiver mode. Status: When flashing, the device is encoding or decoding. When solid, the device is idle. On = Uncomp / Off = Comp: Indicates the compression mode. When on, the device is streaming uncompressed content. When off, the device is streaming compressed content.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream and test pattern at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the HDMI or SDI cable is good and the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.

	LEDs / Buttons	Description
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

Rear



	Connections	Description
1	Audio Out	Connect your analog audio output destination.
2	Line In ¹	Connect your analog audio input source.
3	RS-232 TX RX G	To be supported in a future release.
4	Media / Control SFP 1 SFP 2 ²	Connect SFP 1 to your media network. Connect SFP 2 to your redundant media network (if available). NOTE Install SFPs before booting the device. If you change an SFP, you must reboot the device.
5	HDMI IN	 In TX mode: Connect an HDMI video source to this connector when in transmitter mode. In RX mode: Connection is not used in receiver mode.
6	HDMI OUT	 In TX mode: Connect an HDMI monitor to view the HDMI IN video source content. In RX mode: Connect an HDMI monitor to show the received ST 2110 or IPMX video signal.
7	CONTROL LAN PoE+	If you want to have media and control on separate IP addresses, connect CONTROL LAN to a network other than your media network. If your media network is static, connect this port to a DHCP-enabled network, and then log in to ConvertIP to set the static IP address.

	Connections	Description
8	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

- 1. You must select Line in or Embedded audio in from the ConvertIP web UI.
- 2. Multi-speed SFPs are not supported. Link speeds should auto-negotiate under normal conditions; however, if auto-negotiation fails, manually configure the network switch to force 25G with RS-FEC for 25G direct attachment or to force 10G for 10G links.

Connecting your Matrox ConvertIP DRS

This section shows the basic button functions and connections for the Matrox ConvertIP DRS device.

Front



	LEDs / Buttons	Description
1	Main LEDs	 TX: When green, indicates the ConvertIP is in Transmitter (TX) mode. Status: When flashing green, the device is encoding or decoding depending on what mode it is in. When solid green, the device is powered on, but idle. RX: Indicates the ConvertIP is in Receiver (RX) mode. When ConvertIP is powered up for the first time, it will be in RX mode.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream and test pattern at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the HDMI or SDI cable is good and the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for one second to return to standard operation. For more information, see "Test pattern example" on page 124.
3	Mode	Press and hold simultaneously with the Reset button for one second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.

	LEDs / Buttons	Description
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

Rear



	Connections	Description
1	Audio Out	Connect your analog audio output destination.
2	Line In ¹	Connect your analog audio input source.
3	RS-232 TX RX G	To be supported in a future release.
4	Media / Control LAN 1 PoE+	Connect LAN 1 POE+ to your media network. You can also power the ConvertIP from this port (Power over Ethernet).
	LAN 2	Connect LAN 2 to your redundant media network (if available).
5	12G SDI	 In TX mode (in/out connector is illuminated in green): Connect an SDI video source to this connector when in transmitter mode. In RX mode (in/out connector is illuminated in red): Connect an SDI monitor to this connector to show the received ST 2110 or IPMX video signal when in receiver mode.
6	Genlock	ConvertIP supports a bi-level genlock output signal which is derived from the PTP clock.
7	Control LAN	If you want to have media and control on separate networks, connect CONTROL LAN to a network other than your media network. If your media network is static, connect this port to a DHCP-enabled network, and then log in to ConvertIP to set the static IP address.

	Connections	Description
8	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

1. You must select Line in or Embedded audio in from the ConvertIP web UI.

Connecting your Matrox ConvertIP DSS

This section shows the basic button functions and connections for the Matrox ConvertIP DSS device.





	LEDs / Buttons	Description
1	Main LEDs	 On = TX / Off = RX: Indicates the ConvertIP mode. When on, the device is in Transmitter mode. When off, the device is in Receiver mode. Status: When flashing, the device is encoding or decoding. When solid, the device is idle. On = Uncomp / Off = Comp: Indicates the compression mode. When on, the device is streaming uncompressed content. When off, the device is streaming compressed content.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the HDMI or SDI cable is good and the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.

	LEDs / Buttons	Description
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

Rear



	Connections	Description
1	Audio Out	Connect your analog audio output destination.
2	Line In ¹	Connect your analog audio input source.
3	RS-232 TX RX G	To be supported in a future release.
4	Media / Control SFP 1 SFP 2 ²	Connect SFP 1 to your media network. Connect SFP 2 to your redundant media network (if available). NOTE Install SFPs before booting the device. If you change an SFP, you must reboot the device.
5	12G SDI	 In TX mode (in/out connector is illuminated in green): Connect an SDI video source to this connector when in transmitter mode. In RX mode (in/out connector is illuminated in red): Connect an SDI monitor to this connector to show the received ST 2110 or IPMX video signal when in receiver mode.
6	Genlock	ConvertIP supports a bi-level genlock output signal which is derived from the PTP clock.
7	Control Lan PoE+	If you want to have media and control on separate networks, connect CONTROL LAN to a network other than your media network. If your media network is static, connect this port to a DHCP-enabled network, and then log in to ConvertIP to set the static IP address. You can also power the ConvertIP from this port (Power over Ethernet).

	Connections	Description
8	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

- 1. You must select Line in or Embedded audio in from the ConvertIP web UI.
- 2. Multi-speed SFPs are not supported. Link speeds should auto-negotiate under normal conditions; however, if auto-negotiation fails, manually configure the network switch to force 25G with RS-FEC for 25G direct attachment or to force 10G for 10G links.

Connecting your Matrox ConvertIP SRST

This section shows the basic button functions and connections for the Matrox ConvertIP SRST device.





	LEDs / Buttons	Description
1	Main LEDs	 On = TX / Off = RX: Indicates the ConvertIP mode. When on, the device is in Transmitter mode. When off, the device is in Receiver mode. Status: When flashing, the device is encoding or decoding. When solid, the device is idle. On = Uncomp / Off = Comp: Indicates the compression mode. When on, the device is streaming uncompressed content. When off, the device is streaming compressed content.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. This will reboot the ConvertIP.

	LEDs / Buttons	Description
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

Rear

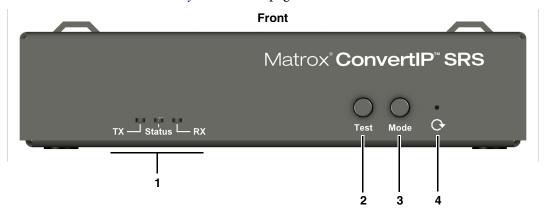


	Connections	Description
1	HDBaseT	Connect your HDBaseT video device to this connector.
2	RS-232 TX RX G	To be supported in a future release.
3	Media / Control SFP ¹	If the SFP firmware is installed, this will be the only active port for media/control. The <i>Media / Control LAN PoE</i> + will not be functional. NOTE Install SFPs before booting the device. If you change an SFP, you must reboot the device.
4	Media / Control LAN PoE+	Connect to your media network. You can also power the ConvertIP from this port (Power over Ethernet).
5	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

^{1.} Multi-speed SFPs are not supported. Link speeds should auto-negotiate under normal conditions; however, if auto-negotiation fails, manually configure the network switch to force 25G with RS-FEC for 25G direct attachment or to force 10G for 10G links.

Connecting your Matrox ConvertIP SRS

This section shows the basic button functions and connections for the Matrox ConvertIP SRS device.



	LEDs / Buttons	Description
1	Main LEDs	 TX: When green, indicates the ConvertIP is in Transmitter (TX) mode. Status: When flashing green, the device is encoding or decoding depending on what mode it is in. When solid green, the device is powered on, but idle. RX: When green, indicates the ConvertIP is in Receiver (RX) mode. When ConvertIP is powered up for the first time, it will be in RX mode.
2	Test	In TX mode, press and hold for approximately 10 seconds and release to output a valid multicast stream at the settings specified in the ConvertIP user interface. An input does not need to be connected. In RX mode, press and hold for approximately 10 seconds and release to ensure the connection between ConvertIP and the monitor or downstream device is valid. A valid network connection is not needed to use this. When finished, press the button for approximately 5 seconds to return to standard operation. For more information, see "Test pattern example" on page 124.

	LEDs / Buttons	Description
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from transmitter to receiver and vice-versa. ConvertIP will reboot to switch modes.
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.

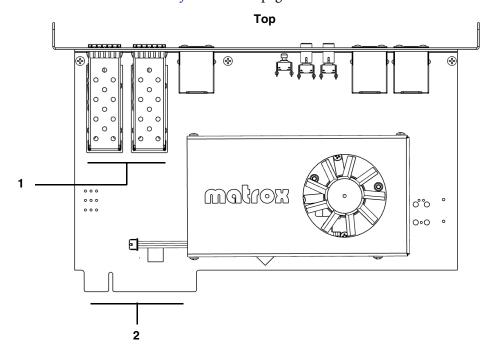


	Connections	Description
1	MEDIA / CONTROL LAN PoE+	Connect to your media network. You can also power the ConvertIP from this port (Power over Ethernet).
2	12G SDI	 In TX mode (in/out connector is illuminated in green): Connect an SDI video source to this connector when in transmitter mode. In RX mode (in/out connector is illuminated in red): Connect an SDI monitor to this connector to show the received ST 2110 or IPMX video signal when in receiver mode.
4	Power	If you do not want your ConvertIP to be powered over the Ethernet connection, connect your 12V DC power supply to this port (sold separately).

Connecting your Matrox ConvertIP SDM

This section shows the basic button functions and connections for the Matrox ConvertIP SDM device.

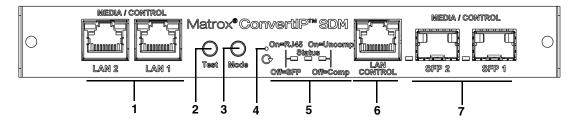
NOTE For complete information on LED behavior and button functions, see "ConvertIP LED status indicators and button functions" on page 107.



	LEDs / Buttons	Description
1	SFP modules	Insert the SFP modules before powering on your monitor/ConvertIPIP SDM. Do not try to "hot-plug" the SFP modules after the power is on.
2	Card slot connection	Insert the ConvertIP SDM card into the appropriate slot on your monitor before powering on the monitor/ConvertIP SDM. This provides power to the card and establishes the SDM connection. For more information, see your monitor's official documentation.

IMPORTANT To ensure proper functioning of ConvertIP SDM, LAN/RJ45 media and SFP media cannot both be connected at the same time.

Front



	Connections	Description
1	Media / Control LAN 1	Connect LAN 1 to your media network.
	LAN 2	Connect LAN 2 to your redundant media network (if available).
2		Press and hold for approximately 10 seconds and release to activate the test pattern.
	Test	When finished, press the button for approximately 5 seconds to return to standard operation.
		For more information, see " <i>Test pattern example</i> " on page 124.
3	Mode	Press and hold simultaneously with the Reset button for 1 second to switch the ConvertIP from SFP media ports to LAN/RJ45 media ports and vice-versa. ConvertIP will reboot to switch modes.
4	Reset	Reboots the ConvertIP with a short press, or resets to factory default settings with a long press of about 8 seconds.
5	Main LEDs	 Status: When flashing green, the device is decoding. When solid green, the device is powered on, but idle. RJ45 / SFP: Indicates the media ports being used (RJ45 or SFP). Uncomp / Comp: When green, indicates the ConvertIP is in Uncompressed mode. When unlit, indicates the ConvertIP is in Compressed mode. When ConvertIP is powered up for the first time, it will be in Uncompressed mode. Status: Flashing indicates encoding/decoding. Solid indicates device is idle.

	Connections	Description
6	LAN Control	If you want to have media and control on separate IP addresses, connect LAN CONTROL to a network other than your media network. If your media network is static, connect this port to a DHCP-enabled network, and then log in to ConvertIP to set the static IP address.
7	Media / Control SFP 1 SFP 2 ¹	Connect SFP 1 to your media network. Connect SFP 2 to your redundant media network (if available). NOTE Install SFPs before booting the device. If you
		change an SFP, you must reboot the device.

^{1.} Multi-speed SFPs are not supported. Link speeds should auto-negotiate under normal conditions; however, if auto-negotiation fails, manually configure the network switch to force 25G with RS-FEC for 25G direct attachment or to force 10G for 10G links.

CHAPTER 3

Getting started with Matrox ConvertIP

This chapter includes the following topics:

- Initial setup overview
- Logging in to Matrox ConvertIP
- Modifying the ConvertIP user account
- Configuring ConvertIP certificates
- Connecting ConvertIP receivers and transmitters
- Daisy chaining your Matrox ConvertIP devices

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Initial setup overview

The following list is an overview of the tasks you'll need to perform to get started with Matrox ConvertIP. When needed, links to other topics are provided for more information.

Although this list is shown as a series of steps, you do not necessarily need to do all these tasks in the order described. For example, you can connect your video source before powering up the ConvertIP.

NOTE Some of the tasks listed here can be done more quickly using the Matrox ConvertIP Manager application. For more information, go to the download page of our *website*.

To get started with Matrox ConvertIP:

Step 1. Connect the Matrox ConvertIP to a power source: Matrox ConvertIP can be powered by an external power supply (sold separately) or by using PoE+ (Power Over Ethernet).

More info: See "Matrox ConvertIP Hardware Connections" on page 7.

Step 2. Connect Matrox ConvertIP to your network: Network connections vary by Matrox ConvertIP model. For example, the ConvertIP SRH model features a single network connector for media, control, and optional power. Other ConvertIP models offer additional connectors, allowing for separate networks for media and control. For more information, see the connection sections for your specific ConvertIP device:

More info:

- See "Connecting your Matrox ConvertIP SRH" on page 8.
- See "Connecting your Matrox ConvertIP DRH" on page 10.
- See "Connecting your Matrox ConvertIP DSH" on page 13.
- See "Connecting your Matrox ConvertIP DRS" on page 16.
- See "Connecting your Matrox ConvertIP DSS" on page 19.
- See "Connecting your Matrox ConvertIP SRST" on page 22.
- See "Connecting your Matrox ConvertIP SRS" on page 24.
- O See "Connecting your Matrox ConvertIP SDM" on page 26.
- Step 3. Access the Web interface: When ConvertIP is connected to your network, it will boot in DHCP and broadcast in mDNS. This allows you to connect to the ConvertIP Command Center with your web browser (Google Chrome is recommended).

You can connect with your ConvertIP's IP address or, if your computer and ConvertIP are on the same subnet, go to *https://mtxcip-ConvertIP_serial*, where "ConvertIP_serial" is the serial number found on your device label (e.g. *https://mtxcip-ab12345/*).

More info: See "Discovering Matrox ConvertIP devices on your network" on page 32.

Step 4. Log in and create an initial user account: When you first log in to the ConvertIP Command Center, you will need to create the Administrator account (username and password). You can also do this using the Matrox ConvertIP Manager application.

More info: See "Logging in to Matrox ConvertIP" on page 33.

Step 5. Update Matrox ConvertIP: There may be a more recent firmware version available for your ConvertIP from the Matrox Video *website*. It is recommended to always use the latest version. Ignore this step if you already have the latest version of ConvertIP.

More info: See "Firmware update" on page 59.

Step 6. Verify the status of your device: Go to the *Status* page of the ConvertIP Command Center to display the device status. Make sure everything is working as needed.

More info: See "Status" on page 43.

Step 7. Configure settings: Configure your ConvertIP devices as transmitters or receivers according to your streaming workflow. You can switch between modes easily from the **Maintenance** page.

More info:

- O See "Matrox ConvertIP Settings Reference" on page 42.
- O See "Connecting ConvertIP receivers and transmitters" on page 36
- O See "Maintenance" on page 59.
- Step 8. Start your streams: Once you have configured your ConvertIP receiver and transmitter devices, you are ready to begin streaming. You can establish a single connection from one ConvertIP to another from the ConvertIP Command Center. For more complex workflows, you can use Matrox ConductIP or the Matrox ConvertIP Manager application to connect multiple sender and receiver flows.

More info:

- See "Connecting ConvertIP receivers and transmitters" on page 36.
- O See "Routing (TX devices)" on page 49.
- See "Stream settings (RX devices)" on page 50.

Result of this task: You are ready to use Matrox ConvertIP.

Discovering Matrox ConvertIP devices on your network

When you initially connect Matrox ConvertIP devices to your network, they will boot in DHCP and broadcast in mDNS. This means that you will have to discover them on your network before you can log in to the web-based Command Center to configure them.

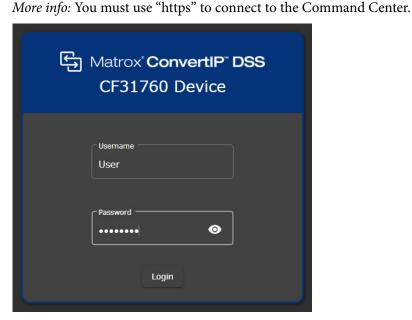
After your ConvertIP devices are connected to your network, there are several ways to discover them and get their IP addresses:

- Connect a monitor to the ConvertIP's HDMI or SDI outputs, and activate the test pattern to see the IP address you can use to log in. For more information, see "*Test pattern example*" on page 124.
- Use the Matrox ConductIP or Matrox ConvertIP Manager applications to detect the ConvertIP devices on your network. Each application includes embedded help to guide you through the process of discovering and updating your ConvertIP devices.
- If your computer and ConvertIP are on the same subnet, open your web browser and go to https://mtxcip-ConvertIP_serial, where "ConvertIP_serial" is the serial number found on your device label. If your network is set up to use mDNS, this will take you to the ConvertIP login page.

Logging in to Matrox ConvertIP

After you have discovered your Matrox ConvertIP device on the network and know its IP address, you can log in to the web-based Command Center for configuration.

- **Step 1.** Discover the ConvertIP devices on your network (see "*Discovering Matrox ConvertIP devices on your network*" on page 32).
- Step 2. Open your web browser and go to the IP address of your ConvertIP (e.g. https://192.168.12.345) to access the Command Center.



Step 3. Enter your **Username** and **Password**, then click **Login**.

More info: If this is the first time you are logging in to this ConvertIP you will instead be prompted to create a username and password to continue with the initial setup.

Result of this task: You are logged in to your ConvertIP.

When done, remember: You can also use the Matrox ConductIP or Matrox ConvertIP Manager applications to access the ConvertIP Command Center.

Modifying the ConvertIP user account

You create a single user account on ConvertIP when you log on for the first time. After that, you can add a first and last name to the account, and change the account password.

To modify the user account:

- **Step 1.** Log on to ConvertIP (see "Logging in to Matrox ConvertIP" on page 33).
- **Step 2.** Go to **Account > Account management**.
- **Step 3.** To add a first and last name to this username (shown in the **Username** field), enter the information where indicated.
- Step 4. To change the password for this username, click **Change password** and follow the onscreen instructions to proceed.
- **Step 5.** When finished click **Apply**.

Result of this task: Your changes are applied to your user account.

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Configuring ConvertIP certificates

You will need to use the Matrox ConvertIP Manager application to perform this task.

- **Step 1.** Download the Matrox ConvertIP Manager application *here*.
- **Step 2.** Open Matrox ConvertIP Manager, and generate the server certificate:
 - **a.** At the top-right, click the **Settings** button.
 - b. Select Trusted certificates.
 - c. Click Generate root certificate and private key.
 - **d.** Click the folder icon next to **Root certificate directory** and choose where to save the certificate and key.
 - **e.** Change the extension of the root certificate directory **Certificate file name** so it reads *CA.crt*.
 - f. Click Ok.
- **Step 3.** Click **Import trusted certificate**, select the *CA.crt* file, and click **Open**.
- **Step 4.** Install the certificate on your devices.
 - a. Return to the **Devices** page.
 - **b.** Check mark the devices for which the certificate is to be installed.
 - **c.** Select the **Devices** menu (three vertical dots).
 - d. Select Certificates and Install certificate.
 - **e.** If prompted, enter the usernames and passwords for the selected devices.

More info: The **Root certificate** will appear as *graphics.matrox.com*.

- **f.** Click the icon to the right of **Root certificate private key file** and select the *CA.key* file created earlier.
- **g.** Click **Ok**, then click **Yes** to reboot the device.
- **Step 5.** Use **Windows File Explorer** to go to the folder where the *CA.crt* file is located.
- **Step 6.** Double-click the file and click **Install certificate**... to start the Certificate Import Wizard.
- **Step 7.** Select **Local machine**.
- **Step 8.** Select **Place all certificates in the following store** and click **Browse...**
- Step 9. Select Trusted Root Certification Authorities and click Ok.

 More info: If the import was successful, a confirmation message will appear.
- **Step 10.** If the Web browser (Google Chrome is recommended) was previously used to access ConvertIP device configurations, open the browser's settings and delete all browser data, then close and restart the browser.
- **Step 11.** Access the configuration pages of the ConvertIP device either by IP address (https://[IP_address]) or by name (https://MTXCIP-[serial_number]) and confirm that the browser pages are secure (without warnings) as expected.

Result of this task: You have successfully configured your ConvertIP certificates.

Connecting ConvertIP receivers and transmitters

This section describes the different methods for connecting ConvertIP transmitters and receivers via the Matrox ConvertIP Command Center user interface. If you have a small installation with a few devices, using this approach will provide the simplest way to establish connections. However, if you have a complex setup with multiple devices, it is recommended to manage your connections using *Matrox ConvertIP Manager* or *Matrox ConductIP*.

NOTE You must activate the **Master enable** on the transmitter for streaming to work. See "*Master enable*" on page 45.

Switching ConvertIP operating modes

To switch your ConvertIP operating mode (**Transmitter** or **Receiver**):

- Step 1. Open your web browser and go to the IP address of your ConvertIP (e.g. https://192.168.123.456).
- **Step 2.** Go to **Device > Maintenance**.
- Step 3. Under Operating mode, select your desired mode from the list.

 More info: The current ConvertIP operating mode is displayed in the top-right corner of the user interface.
- **Step 4.** Click **Apply**.

Result of this task: Your ConvertIP will reboot and begin operating in the selected mode. You can then log in again to continue.

Connecting ConvertIP devices

In the Matrox ConvertIP Command Center, you can connect a ConvertIP transmitter to a ConvertIP receiver using SDP URLs from the transmitter, the quick connect method, or custom receiver settings.

Using SDP URLs from the transmitter

To connect a transmitter to a receiver using the SDP URLs from the transmitter:

- Step 1. Open your web browser and go to the IP address of your ConvertIP transmitter (e.g. https://192.168.123.456).
- **Step 2.** Go to AV and Stream Configuration > Dashboard.
- **Step 3.** Manually copy the **Video SDP file URL**.

- **Step 4.** Open a new browser tab and go to the IP address of your receiver ConvertIP (e.g. https://192.168.123.456).
- **Step 5.** Go to AV and Stream Configuration > Stream settings.
- **Step 6.** For the **Connection method**, select **Use SDP URLs**.
- **Step 7.** Paste the copied text into the **Video SDP URL**.
- **Step 8.** Repeat the steps for the **Audio SDP file URL**.
- Step 9. Click Apply.

Result of this task: Your ConvertIP transmitter is connected to your ConvertIP receiver.

Using the quick connect method

To connect a transmitter to a receiver using the quick connect method:

- Step 1. Open your web browser and go to the IP address of your receiver ConvertIP (e.g. https://192.168.123.456).
- **Step 2.** Go to AV and Stream Configuration > Stream settings.
- Step 3. From the Connection mode drop-down, select Use quick connect mode.

 More info: A list of the available ConvertIP receivers will appear after a few seconds. Click Refresh the list of ConvertIP devices on the network to force a search for devices.
- **Step 4.** Select a transmitter ConvertIP from the list of **Available ConvertIP devices**.
- Step 5. Click Apply.

Result of this task: Your ConvertIP transmitter is connected to your ConvertIP receiver.

Using custom settings on the receiver

To connect a transmitter to a receiver using customer receiver settings:

- Step 1. Open your web browser and go to the IP address of your ConvertIP receiver (e.g. https://192.168.123.456).
- **Step 2.** Go to AV and Stream Configuration > Stream settings.
- **Step 3.** From the **Connection mode** drop-down, select **Custom settings**.
- **Step 4.** Enter the required information, which can be found on your ConvertIP transmitter device.
 - *More info*: You will need to manually match the settings coming from the ConvertIP transmitter to have a successful connection.
- Step 5. Click Apply.

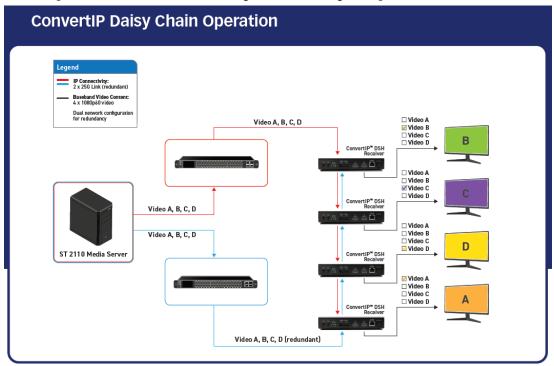
Result of this task: Your ConvertIP transmitter is connected to your ConvertIP receiver.

Daisy chaining your Matrox ConvertIP devices

This section explains how to create a daisy-chained setup with multiple Matrox ConvertIP DSS, DSH and/or SDM devices. Using the SFP ports, you can chain the ConvertIP devices to support up to 25G of bandwidth, depending on the specific device. This configuration allows video output through each device's HDMI or SDI outputs.

NOTE For ConvertIP SDM, daisy chaining is only supported when the dual SFP media ports are enabled. When dual LAN/RJ45 is enabled, daisy chaining will not work.

For example, here is an HDMI monitoring workflow using multiple ConvertIP DSH devices:



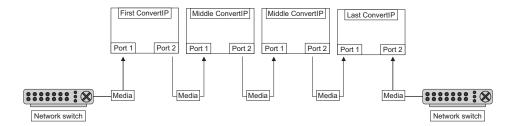
ConvertIP receivers configured in Daisy-chain mode converting FHD 2110 video content [1080p59.94] for HDMI monitoring.

This example shows a daisy chain configuration using ConvertIP DSH devices (in RX mode) to distribute four video signals (A, B, C, D) from an ST 2110 media server. The signals are routed through multiple receivers connected by redundant 25GbE links via the SFP ports, ensuring high availability. Each receiver outputs its assigned signal to designated monitors, with the final receiver providing a redundant connection for all video feeds. This setup is optimized for monitoring Full HD video content (1080p59.94) via HDMI, providing a robust and redundant networked video distribution system.

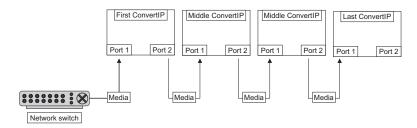
NOTE This example illustrates an HDMI-based setup that can also be applied for the ConvertIP SDM. The ConvertIP DSS allows for an identical workflow with SDI-based setups. Additionally, HDMI and SDI connections can be mixed within the daisy chain configuration.

Here are two simplified workflow examples with and without redundancy:

With redundancy



Without redundancy



To set up your daisy-chained ConvertIP workflow:

Step 1. Connect all your ConvertIP DSS, DSH and/or SDM devices to your network via their SFP ports. Make sure you know which ones will be the first, middle, and last in your daisy chain position.

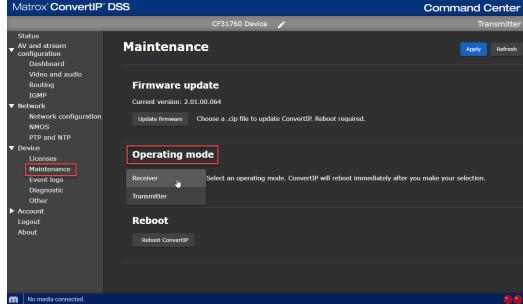
More info:

- See "Connecting your Matrox ConvertIP DSH" on page 13.
- See "Connecting your Matrox ConvertIP DSS" on page 19.
- See "Connecting your Matrox ConvertIP SDM" on page 26.
- **Step 2.** Log in to the ConvertIP Command Center (see "*Logging in to Matrox Conver-tIP*" on page *33*).

NOTE For ConvertIP SDM, proceed to *Step 4*.

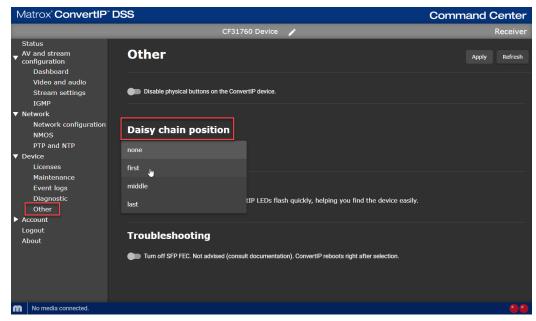
Step 3. If your ConvertIP is not already in RX mode, go to Settings > Device > Maintenance > Operating mode, select Receiver, then click Apply.

Matrox ConvertIP DSS Command Cer



Your ConvertIP will reboot to switch modes.

- **Step 4.** Set the **Daisy chain position** for your ConvertIP:
 - a. Go to Settings > Device > Other.



- b. Under Daisy chain position, select the position of this ConvertIP (First, Middle, or Last). If this ConvertIP is in any position other than first or last in the chain, select Middle.
- c. Click Apply.
- **d.** Repeat for all other ConvertIP devices in the chain.

- **Step 5.** If you are including redundancy to your daisy chain:
 - **a.** Make sure to connect the second SFP port of your **Last** ConvertIP receiver to your network switch.
 - b. Enable redundancy for *each* ConvertIP in the chain starting from first to last. Go to Settings > AV and stream configuration > Stream settings, turn on Enable redundancy, then click Apply.
 - c. Make sure the SFP ports are detected and have a valid IP (go to SettingsStatus > Network Connections).
- **Step 6.** Connect your monitors to the HDMI and/or SDI outputs of your chained ConvertIP devices.
- Step 7. Using the Matrox ConvertIP Manager, or Matrox ConductIP applications, configure the sender and receiver flows to create your desired monitoring workflow.

More info: Both Matrox applications include embedded help to guide you through the process of connecting sender and receiver flows.

Result of this task: Your ConvertIP devices are successfully daisy-chained together, and you can start your streaming and monitoring workflow.

When done, remember: For daisy chaining to work from one device to another, the devices must be powered. If power is lost, the connection to the next device is also lost.

IMPORTANT You are responsible for ensuring that a daisy chain is not over-subscribed. You can daisy chain as many devices as you wish. However, if the group of daisy chain receivers is allowed to collectively subscribe to more streams than the link can sustain, every stream that is sent to the daisy chain group may be impacted.

Note that if multiple devices in the daisy chain group are subscribed to a stream, the switch will only send one stream over the link. Go to **Settings** > **Dashboard** to see the bitrate and link usage of a device in the web UI.

You can mix and match any of the streams taking note of the following:

- Link speed of the daisy chain group (10G or 25G).
- ConvertIPs with Codec firmware installed can only operate on a 10G link.

CHAPTER 4

Matrox ConvertIP Settings Reference

This chapter includes the following topics:

- Status
- AV and Stream Configuration
- Network
- Device
- Account
- About

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Last updated: March 20, 2025

Status

This section describes the **Status** page in Matrox ConvertIP.

From the gray bar at the top of the page, you can edit the ConvertIP device name and see the operating mode (transmitter or receiver). Click **Refresh** to see the latest status for all settings.

NOTE The information displayed on this page will be different depending on whether your ConvertIP is in transmitter mode (TX) or in receiver mode (RX). In this section, the TX and RX settings are described together.

The **Status** page gives you a quick overall view of the status of your ConvertIP, such as:

- Details about your ConvertIP hardware, such as the serial number, mode (TX or RX for all models except SDM; SFP or RJ45 for SDM), and configuration type (e.g. codec support).
- Details about your ConvertIP's configuration. The device configuration represents the firmware that has been loaded on to the device and its capabilities.
- Details about the IP stream, such as whether or not it is active, the NMOS group, the resolution, and more.
- Details about your audio and video inputs/outputs, such as the video resolution, audio status, and whether or not there is a test signal being used.
- Details about your network, such as the IP addresses of your ConvertIP's different LAN ports (Control, Media 1, and Media 2).
- Additional status information about PTP lock, NMOS server registration/priority, hardware temperature, and more.
- Details about the various services running on ConvertIP. Typically this information is used to troubleshoot ConvertIP along with technical support if needed.
 - Web Server: Shows if the server is functioning properly and all keys and certificates are valid.
 - Video: If this shows "success", the device is ready to process video.
 - Audio: Shows if the audio signal is found and active.
 - Ancillary¹: Shows if the ancillary data signal is found and active.
 - **Auto Mode:** Shows if the ConvertIP receiver is in "Quick connect mode". If this shows "success" you can use ConvertIP in this mode.
 - **SDP Mode:** (ConvertIP RX only), this shows if the ConvertIP is in SDP mode. If this shows "success" you can use ConvertIP in this mode.
 - NTP: Shows if NTP is enabled.
 - PTP: Shows if PTP is enabled.
 - NMOS Server: Regularly checks to see if the NMOS server is online and functioning correctly.
 - Registry Server: Regularly checks to see if the registry server is online and functioning correctly.

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^{1.} On ConvertIP DSS, DRS, and SRS models only.

- **HDCP:** Shows if the content is HDCP-compliant¹.

^{1.} HDCP 2.2 Type 1 content is not allowed to be down-converted to previous standards. This means that a display having only HDCP 1.4 support is not allowed to display HDCP 2.2 Type 1 content.

AV and Stream Configuration

This section describes the AV and Stream Configuration page in Matrox ConvertIP.

From the gray bar at the top of the page, you can edit the ConvertIP device name and see the operating mode (transmitter or receiver).

NOTE The information displayed on this page may be different depending on whether your ConvertIP is in transmitter mode (TX) or in receiver mode (RX). In this section, the TX and RX settings are described together.

Setting	Description
Dash	board
Master enable	Enable/disable to activate or deactivate the ConvertIP streaming operation. When first connected, this is disabled and must be enabled manually, or via an NMOS API call to route the signal.
Video Information	Provides information about your video stream such as its resolution, frame rate, compression type, and more. The video pixel depth is a scale from 0 to 4 of the quality of compressed video, given the current bitrate and resolution.
Audio Information	Provides information about your audio stream such as the input selection, number of channels, format, and more.
Bitrate information	Provides information about your bitrate and link usage.
Video SDP file URL	Includes the URL for SDP information. Click Copy SDP URL if you want to paste the URL elsewhere. Click Show and copy SDP if you want to view the SDP in a new browser tab. The text content will also be copied to your clipboard.
Audio SDP file URL	Includes the URL for SDP information. Click Copy SDP URL if you want to paste the URL elsewhere. Click Show and copy SDP if you want to view the SDP in a new browser tab. The text content will also be copied to your clipboard.

Setting	Description
Ancillary SDP file URL	Includes the URL for SDP information. Click Copy SDP URL if you want to paste the URL elsewhere. Click Show and copy SDP if you want to view the SDP in a new browser tab. The text content will also be copied to your clipboard.
Monitor connected at output	When applicable, shows the monitor type connected to the ConvertIP's HDMI output.
Video and a	udio settings
Video settings	 Use input format: ConvertIP will detect and use the format connected to the ConvertIP. Set manually: Specify the parameters manually to upscale, downscale, and color convert according to your desired workflow¹. Enable compression: Compress the video content and specify the parameters. Guidelines are provided to help you select the proper bitrate. RX settings: Use input format: ConvertIP will detect and use the format connected to the stream input. Use the preferred format from EDID: Uses the preferred format from the EDID of the monitor connected to the ConvertIP¹. Set manually: Specify the parameters manually to upscale, downscale, and color convert according to your desired workflow¹.

Setting	Description
Audio settings	 TX settings: Use HDMI embedded audio: Uses audio from embedded HDMI video. Use SDI embedded audio: Uses audio from embedded SDI video. Use analog audio input: Uses audio from the Line in connector on supported ConvertIP models. Channels to be streamed: Select which audio channels to include in the stream. RX settings: Displays audio status only.
Test pattern settings ²	Instead of video content, this forces a test pattern to stream when in TX mode, or streams the SDI or HDMI output when in RX mode. If you press the Test button on the ConvertIP device to output the test pattern, this option will appear as selected. The test pattern includes information about the ConvertIP you are using, such as the model, mode it is in (TX or RX), and IP address of the various LAN ports.
Lost signal settings	 Specify what ConvertIP should do when a signal is lost. TX mode: Select message to display a message, or no output to stop outputting the signal. RX mode: Select message to display a message, no output to stop outputting the signal, or blank to show that there is no input signal.

Setting	Description
Mode	 TX mode IPMX: The input will be processed and transmitted immediately, and the SDP file will indicate this is being transmitted using an IPMX profile. TX mode ST 2110: Indicates if the SDI source is already locked to the PTP clock externally. If it is, the output will be processed immediately. If not, the output will be delayed by one frame to be correctly aligned to the PTP clock as defined by ST 2110 specifications. RX mode IPMX: If the input uses the IPMX profile (SDP), the stream will be processed and displayed immediately. RX mode ST 2110: Indicates if the source is already locked to the PTP. If it is, the output will be processed immediately. If it is not, the output will be delayed by one frame for proper alignment as defined by ST 2110 specifications.

Setting	Description	
Routing (7	Routing (TX devices)	
Video	Click Include to include video content in your stream. The destination IP address and UDP port will be populated automatically, but you can change them if specific addresses or ports are required.	
Audio	Click Include to include audio content in your stream. The destination IP address and UDP port will be populated automatically, but you can change them if specific addresses or ports are required.	
Anc ³	Click Include to include ancillary data content in your stream.	
Enable redundancy	As per SMPTE 2022-7 specifications, this enables a second IP address for your video content. After enabling this option, you must enter your redundant network information where indicated. This feature ensures audio/video resiliency in the event of network disruption or planned network maintenance.	
Reset multicast parameters	Click here to reset all routing parameters to their default values.	

Setting	Description
Stream setting	gs (RX devices)
Connection method (Use custom settings)	If the ConvertIP routing is managed by an NMOS controller (such as Matrox ConductIP), ConvertIP will operate according to this method. You can also manually specify these settings if needed. This is ConvertIP's default option. • Enable IPMX mode: Enable this option when the incoming stream from a ConvertIP or third-party transmitter is using the IPMX protocol. If this is enabled, the incoming stream must be in IPMX, otherwise ConvertIP is expecting an ST 2110 stream. • Enable redundancy: Enables a second multicast IP address for video content. After enabling this option, you must enter your redundant network information where indicated. This option is typically used for network maintenance. • Enable unicast: When enabled, this automatically fills the IP address fields on the page with the device's current IP address. • Source is compressed: With this connection method, there is no SDP file to indicate whether or not the source content is compressed. The user must specify this information if applicable. • Link offset delay: Identifies the delay used to synchronize Playout Time of all components of a stream by receivers.

Setting	Description
Connection method (Use quick connect mode)	Using this mode, a receiver can select to receive an A/V stream from any ConvertIP transmitter unit on the network, even if another receiver is consuming the stream. When you access this page, ConvertIP will automatically search for compatible ConvertIP transmitter devices on the same subnet. You can also click Refresh list of ConvertIP devices on the network . When ready, click on a ConvertIP from the list to connect to it.
	NOTE This connection will receive both video and audio content from the ConvertIP transmitter you choose. If you want video and audio from two different sources, you must Use custom settings or SDP URLs and configure your streams accordingly.
Connection method (Use SDP URLs)	This mode allows for the details found in an SDP file to be automatically applied. Copy your SDP URLs from your transmitter device and paste them in the corresponding fields.
	For example, if you log into the Dashboard page of any ConvertIP that is ready to transmit, audio and video SDP URLs are available to copy to your clipboard, which you then paste in the SDP field of a ConvertIP in receiver mode.
Display EDID (RX devices)	
Select EDID to use	Select the EDID of the monitor connected to the HDMI OUT, or select an EDID file to use if the connected monitor does not provide a suitable EDID for your workflow. NOTE These EDID settings only apply when your video output parameters are set to Use the preferred format from EDID (see Video settings).

Setting	Description	
Manage the EDID file	 Allows you to download or upload an EDID. Download the EDID file of the monitor connected to the HDMI OUT, which you can then upload to another ConvertIP to optimize your workflow. Upload an EDID file when the connected monitor's EDID is not available or cannot be read by ConvertIP. The uploaded EDID will then appear in Select EDID to use list. NOTE These EDID settings only apply when your video output parameters are set 	
	to Use the preferred format from EDID (see Video settings).	
EDID managem	EDID management (TX devices)	
Select EDID to use	Select the ConvertIP's internal EDID, or a different EDID that you have uploaded to ConvertIP using the Export/Load the internal EDID option.	
	NOTE These EDID settings only apply when your video output parameters are set to Use the preferred format from EDID (see <i>Video settings</i>).	
Export/Load the internal EDID	Allows you to upload or download an EDID, or use Passthrough to have the monitor connected on the HDMI output interface with the GPU that is sending the video to ConvertIP.	
	NOTE These EDID settings only apply when your video output parameters are set to Use the preferred format from EDID (see <i>Video settings</i>).	

Setting	Description
IGMP	
IGMP version ⁴	Select the IGMP version you want to use depending on your network. The ConvertIP will reboot to apply this change.

- 1. When video content is 1080i (i.e. interlaced), ConvertIP will not scale or convert the stream. The stream will be processed in its native format.
- 2. On ConvertIP DRH and DSH models in TX mode, the test pattern will be output from the HDMI OUT if a monitor is connected to that port.
- 3. Only on ConvertIP DRS, DSS and SRS models.
- 4. To ensure proper functionality of IGMP, a managed switch that supports IGMP (with IGMP snooping enabled) should be in place, and at least one device acting as an IGMP querier should be present to initiate group membership queries.

Network

This section describes the **Network** page in Matrox ConvertIP.

From the gray bar at the top of the page, you can edit the ConvertIP device name and see the operating mode (transmitter or receiver).

NOTE Since you can configure Matrox ConvertIP to be a transmitter (TX) or a receiver (RX), the information on this page may be different depending on the mode your ConvertIP is in. In this section, both the TX and RX settings are described together.

Setting	Description
Network configuration	
Control LAN	Set your Control LAN to DHCP or Static. If you set this to static, you'll need to specify the corresponding IP address and network information. This is the LAN that receives the control commands for ConvertIP settings. This is typically set to DHCP in most cases. • Enable MDNS discovery: Enable to broadcast the ConvertIP internal NMOS registry on the network under the multicast DNS protocol. This resolves hostnames to IP addresses within networks that do not include a domain name server. Multicast DNS publication only works with devices on the same subnet. • Enable LLMNR discovery: Enable Link-Local Multicast Name Resolution to allow an IPv4 host to perform name resolution for hosts on the same local link.
Media LAN 1	Set your Media LAN 1 to DHCP or Static . If you set this to static, you'll need to specify the corresponding IP address and network information. This is the LAN that receives video/audio content. • Enable MDNS discovery : See <i>Control LAN</i> . • Enable LLMNR discovery : See <i>Control LAN</i> .

Setting	Description
Media LAN 2	Set your Media LAN 2 to DHCP or Static. If you set this to static, you'll need to specify the corresponding IP address and network information. This is the LAN that receives video/audio content. • Enable MDNS discovery: See Control LAN. • Enable LLMNR discovery: See Control LAN. Media LAN 2 is only used as a redundant connection for Media LAN 1. If you are only using one connection, use Media LAN 1.
NM	IOS
Enable	Enable/disable NMOS on the selected port.
NMOS interface	 LAN selection¹: Select the network connection on which to enable NMOS. Port: Specify the port. Node and device name: Specify the name for your ConvertIP device. You can also do this at the top of the page. This is the name that will appear in Matrox ConductIP, or in any third-party application that uses NMOS protocol for device identification. Node and device description: Provide a description for your ConvertIP. This is the description that will appear in Matrox ConductIP, or in any third-party application that uses NMOS protocol for device identification. Group name: A group is an NMOS signifier that identifies more than one media stream (such as one video and multiple audio tracks) as a single logical group. ConvertIP devices appear as natural NMOS groups (video, audio, and ancillary data) in applications such as Matrox ConductIP. This is the name of this device's group.

Setting	Description
NMOS registry	Select the NMOS registry broadcast settings. MDNS enables Domain Name Service over link-local multicast, while DNS-SD supports network service discovery via DNS. For manual selection, specify the corresponding settings.
PTP ar	nd NTP
	Enable PTP: Enable to allow this ConvertIP to be synchronized to a master clock on the network.
PTP settings	• Follower or BMC ² : If you want ConvertIP to follow your network PTP, select Follower and specify the required information (default values recommended). If you want ConvertIP to be your PTP server, select BMC and specify the required information (default values recommended).
NTP settings	 Enable NTP: Enable the NTP time server to log ConvertIP activity (i.e. Event logs). LAN selection: Select which LAN port supports NTP. Typically, the Control LAN is used for this. NTP server: Specify the NTP server address.
Status	Shows the PTP connection status. Clock identity: MAC address of the machine acting as the PTP clock. If ConvertIP is the PTP master, this will show the ConvertIP's MAC address. IsLocked: Shows "True" if ConvertIP is locked to PTP clock. Shows "False" if not locked. Sync Interval: Synchronization interval of packets per second for messages sent between master clock and follower. Offset from leader: This value can help with troubleshooting network issues that prevent proper operation.

^{1.} The difference between **Control LAN** and **Control LAN** (**if available**) is that, with the latter, NMOS will fall back to **Media LAN 1** if the control network does not have an NMOS server.

2. BMC was tested up to 100 devices. If there are more than 100 devices on your network that require PTP, we recommend that you use a dedicated PTP master clock device.

Device

This section describes the **Device** page in Matrox ConvertIP.

From the gray bar at the top of the page, you can edit the ConvertIP device name and see the operating mode (transmitter or receiver).

NOTE Since you can configure Matrox ConvertIP to be a transmitter (TX) or a receiver (RX), the information on this page may be different depending on the mode your ConvertIP is in. In this section, both the TX and RX settings are described together.

Setting	Description
Licenses	
Upload license	Click Upload License to browse and select a Matrox license file (.lic) from your computer. This license activates additional options, like JPEG XS support. Once uploaded, the license will appear on this page, indicating its presence on the ConvertIP device. Please note that this license is unique to the device and is permanent.

Setting	Description
Maint	enance
Firmware update	To update the ConvertIP, click on Update Firmware and browse to a folder on your computer. Select the appropriate Matrox ConvertIP update file for the desired version. A firmware update package may include multiple versions for each ConvertIP model. Choose the version that matches your intended workflow, such as JPEG XS, ProAV codec, or uncompressed/25G. All settings are retained during the firmware update process.
	 NOTE Note the following: You can also utilize the firmware update to enable additional codec support, such as JPEG XS. However, please note that a license file must be present for JPEG XS to function correctly. Using the Matrox ConvertIP Manager can provide a more convenient method for uploading or changing firmware, especially when managing multiple devices. For more information, see the Matrox ConvertIP Manager embedded HTML help.
Operating mode	Select Transmitter or Receiver to switch ConvertIP into that mode. For ConvertIP SDM only, select RJ45 Media Port or SFP Media Port to switch ConvertIP into that mode. For all models, this will initiate a device reboot.
Reboot	Reboot the ConvertIP. This is a simple reboot of the device and not a factory reset.
Event logs	
Events	This is a list of the events that have occurred on this ConvertIP device over a given time period.
Log	You can download logs of the events (e.g. for Matrox Technical Support purposes) or clear the logs.

Setting	Description
Diagnostic	
Packet capture interface	Choose the interface for packet capture, then click Start Capture . Once the capture is finished, you can download the file for further analysis.
Telemetry configuration (RX only)	This section allows you to obtain the maximum delay of a packet from its expected time.

Setting	Description
Telemetry data (RX only)	 Missing packets main: This shows the number of packets missing in the video stream 0 in the main ST 2110 path. If this number is changing frequently, it means that there are many video packets being lost, resulting in corrupted video. Missing packets sec: This shows the number of packets missing in the video stream 0 in the secondary ST 2110 path (redundancy path). FEC correction err: To be supported in a future release. Replay: This shows how often the video output uses the same frame twice in a row. Typically, a difference in the frame rate (ST 2110 slower than video output), or a video output not locked to the ST 2110 input will trigger a "replay" event. Skip: This shows how often the video output ignores an incoming ST 2110 frame. Typically, a difference in the frame rate (ST 2110 slower than video output), or a video output not locked to the ST 2110 input will trigger a "skip" event. Frame errors: This shows the number of frames in error (compressed video only). Typically, a single missing packet or any decode error will trigger this. First packet to next frame: This determines the time between the first packet of 2 consecutive frame (video 0 only). This value should be 16.667 ms for a 60hz frame rate. First packet to last packet: This determines the time between the first packet and the last packet of a frame (video 0 only). You can this to determine the traffic shape of the ST 2110 packet (linear or gapped mode). If set, it means that the search engine successfully detected the MAC address & UDP provided to it in an incoming packet.

Setting	Description
(Cont.) Telemetry data (RX only)	 First packet vs redundancy and First packet on primary: This determines the time between the first packet of the main path vs the secondary path (video 0 only). You can use this to determine the current skew between both ST 2110 inputs. The "First packet on primary" status shows which one between the main and secondary path is the first to be received. First packet Wdma vs Vout: This determines the time between the incoming first packet of a frame vs the first pixel played on the video output. You can use this to see the delay between the capture and playback. However, it won't show delay greater than one frame. MAC packet detected: If set, this means that the search engine successfully detected the MAC address provided to it in an incoming packet. UDP packet detected and PTYPE packet detected: If set, this means that the search engine successfully detected the MAC address, UDP, and PTYPE addresses provided to it in an incoming packet.
Ot	her
Disable physical buttons on ConvertIP device	This option prevents anyone from mistakenly pressing a physical button on the ConvertIP hardware and possibly disrupting an operation.
Enforce legal values for limited range video streaming input (RX only)	This option forces ConvertIP to strictly adhere to the legal range for pixel values when working with limited range video formats in YUV or RGB.
Enforce legal values for limited range video streaming output (TX only)	This option forces ConvertIP to strictly adhere to the legal range for pixel values when working with limited range video formats in YUV or RGB.

Setting	Description
Locate device	This helps you locate the ConvertIP device in a rack or area with many units. Click Locate to make the LEDs on the devices blink rapidly. Click Locate again to turn off the LEDs.
Troubleshooting	 Disable SFP FEC: Disables forward error correction on ConvertIP DSH and DSS models. Some 25G network switches do not support FEC, but it is not recommended to operate a 25G network without FEC as packet errors can occur. Disable HDCP: Disabling HDCP may fix compatibility issues¹.

^{1.} A RX unit will not be able to connect to a HDCP-protected TX unit when using manual connection method.

Account

This section describes the **Account** page in Matrox ConvertIP.

From the gray bar at the top of the page, you can edit the ConvertIP device name and see the operating mode (transmitter or receiver).

NOTE Since you can configure Matrox ConvertIP to be a transmitter (TX) or a receiver (RX), the information on this page may be different depending on the mode your ConvertIP is in. In this section, both the TX and RX settings are described together.

Setting	Description
Account management	
First name / Last name	Add a first name and last name to the current user account.
Username	The username of the current user account.
Change password	Change the password for the current user account. This option is only available when not using an active directory user account.
Domain password	Enter the domain password for the current user account. This field only appears when you enter an active directory username. NOTE A root CA certificate is required for active directory to work.
Management tools	
Import user configuration	Imports ConvertIP settings from a .bin file on your computer.
Export user configuration	Exports ConvertIP settings as a .bin file that you can save to your computer. This file can be used to quickly reconfigure a ConvertIP when used in multiple settings. You can also share a configuration between devices.
Reset user configuration	Resets the ConvertIP settings to their factory default values.

Logout

This section describes the **Logout** page in Matrox ConvertIP.

It is recommended that you log out from your ConvertIP session when finished. If you close the browser window without properly logging out, other users trying to log in will receive a message saying that there is already a user connected, and they will be asked if they want to proceed. This may result in unnecessary confusion among different ConvertIP users.

About

This section describes the **About** page in Matrox ConvertIP.

This page displays the following:

- ConvertIP device firmware version.
- ConvertIP device serial number.
- Link to the Matrox website where you can download the official documentation.
- Link to the ConvertIP warranty.
- Link to the third-party licenses used with the ConvertIP.
- The official Matrox Software License Agreement.

CHAPTER 5

Matrox ConvertIP Hardware Specifications

This chapter includes the following topics:

- Matrox ConvertIP SRH specifications
- Matrox ConvertIP DRH specifications
- Matrox ConvertIP DSH specifications
- Matrox ConvertIP DRS specifications
- Matrox ConvertIP DSS specifications
- Matrox ConvertIP SRST specifications
- Matrox ConvertIP SRS specifications
- Matrox ConvertIP SDM specifications

Part # V11579-301-0240

Last updated: March 20, 2025

Matrox ConvertIP SRH specifications

These are the hardware technical specifications for the Matrox ConvertIP SRH.

Matrox Cor	Matrox ConvertIP SRH	
Pro	duct	
Part numbers	CIP-SRH CIP-SRH2	
Form factor	 Standalone appliance Rack-mountable: 1U, 1/3 rack (horizontal) 	
Connectivity		
Video input	1x HDMI	
Video outputs	1x HDMI	
Video resolution	Most desktop resolutions up to 4Kp60	
Audio input/output	Up to 8 channels of audio embedded in HDMI signal	
Network connector	1x RJ45 LAN port for Media and Control with PoE+ (1/2.5G)	
RS-232	No	
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application) 	
Perfor	Performance	
Maximum video resolutions	4096 x 2160 60p	
Bit depth and color space	 YCbCr 4:2:0 10-bit¹ and 8-bit¹ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR² 	

Matrox Coi	Matrox ConvertIP SRH	
Video and Au	Video and Audio Processing	
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler	
Video deinterlacing	Yes ¹	
Color space conversion	Yes	
HDCP support	HDCP 1.4 and 2.2 support	
Encodin	Encoding Formats	
Video ³	Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content • ProAV Colibri codec included • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps • JPEG-XS codec upgrade required ⁴ • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps	
Audio	Uncompressed PCM (~1 Mbps/ch)	
Latency	Less than a 1/4 frame (<4 ms)	
Net	work	
Network standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet	
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP 	
Supported protocols	 SMPTE ST 2110 (-10, -22, -30) SMPTE 2059 (-1, -2) IPMX 	
Redundancy	No	

Matrox ConvertIP SRH	
Command and control	HTTPS over TCP
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1
PoE+	Yes (IEEE 802.3at Type 2)
Phy	sical
Product dimensions	7.13 (D) x 5.5 (W) x 1.42 (H) inches 181 (D) x 138 (W) x 36 (H) mm
Unit weight	1.44 lbs / 655 g
Cooling	Fanless
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector
Hardware a	nd Software
Hardware included	ConvertIP SRH appliance
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁵ Rackmount kit (Part #: RMK-19TR-A)⁶ Angled bracket kit (Part #: RMK-6BRKT-A) Secure cable solution for HDMI (Part #: SK-SLND-4) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)

Matrox Co	Matrox ConvertIP SRH		
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments 		
Enviro	onmental		
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing 		
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing 		
Ge	General		
EMC/EMI device class	Class A		
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ) 		
Environmental compliance	China RoHSEU RoHSREACH		
Warranty	Two-year limited warranty with free online or telephone support		

- 1. Available in a future software update.
- 2. Limited support on HDMI models when using an SDP file to define colorimetry. Additional work is required to support HDR signaling in SDI workflows.
- 3. Bitrates will vary according to resolution.
- 4. For more information, contact your Matrox Video representative.
- 5. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 6. Can fit up to three ConvertIP SRH units in a 1RU space.

Matrox ConvertIP DRH specifications

These are the hardware technical specifications for the Matrox ConvertIP DRH.

Matrox ConvertIP DRH	
Pro	duct
Part numbers	CIP-DRH CIP-DRH2
Form factor	 Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal)
Connectivity	
Video input	1x HDMI
Video output	1x HDMI (zero latency pass-through in TX mode)
Video resolution	Most desktop resolutions up to 4Kp60
Audio input/output	 Up to 8 channels of audio embedded in HDMI signal Unbalanced analog stereo input via 1/8" (3.5 mm) jack Line Level
Network connector	 3x RJ45 ports LAN 1 for Media and Control with PoE+ (1/2.5G) LAN 2 for redundant Media and Control (1/2.5G) Control LAN for Control data only (100/1000 Mbps)
RS-232	Yes ¹
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application)

Matrox Con	Matrox ConvertIP DRH	
Performance		
Maximum video resolutions	4096 x 2160 60p	
Bit depth and color space	 YCbCr 4:2:0 10-bit¹ and 8-bit¹ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR² 	
Video and Au	dio Processing	
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler	
Video deinterlacing	Yes ¹	
Color space conversion	Yes	
HDCP support	HDCP 1.4 and 2.2 support	
Encodin	g Formats	
Video ³	Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content • ProAV Colibri codec included • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps • JPEG-XS codec upgrade required ⁴ • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps	
Audio	Uncompressed PCM (~1 Mbps/ch)	
Latency	Less than a 1/4 frame (<4 ms)	
Net	work	
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP 	
Supported protocols	 SMPTE ST 2110 (-10, -22, -30) SMPTE 2059 (-1, -2) IPMX 	
Redundancy	Yes (ST 2022-7)	

Matrox Con	Matrox ConvertIP DRH	
Command and control	HTTPS over TCP	
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1	
PoE+	Yes (IEEE 802.3at Type 2)	
Phy	sical	
Product dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm	
Unit weight	1.40 lbs / 635 g	
Cooling	Fanless	
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector 	
Hardware a	nd Software	
Hardware included	ConvertIP DRH appliance	
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)	
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁵ Rackmount kit (Part #: RMK-19TR-A)⁶ Angled bracket kit (Part #: RMK-6BRKT-A) Secure cable solution for HDMI (Part #: SK-SLND-4) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB) 	

Matrox C	Matrox ConvertIP DRH		
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments 		
Envir	onmental		
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing 		
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing 		
G	General		
EMC/EMI device class	Class A		
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ) 		
Environmental compliance	China RoHSEU RoHSREACH		
Warranty	Three-year limited warranty with free online or telephone support		

- 1. Available in a future software update.
- 2. Limited support on HDMI models when using an SDP file to define colorimetry. Additional work is required to support HDR signaling in SDI workflows.
- $3. \ \ Bitrates will vary according to resolution.$
- 4. For more information, contact your Matrox Video representative.
- 5. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 6. Can fit up to two ConvertIP DRH units in a 1RU space.

Matrox ConvertIP DSH specifications

These are the hardware technical specifications for the Matrox ConvertIP DSH.

Matrox ConvertIP DSH	
Pro	duct
Part numbers	CIP-DSH CIP-DSH2
Form factor	 Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal)
Connectivity	
Video input	1x HDMI
Video output	1x HDMI (zero latency pass-through in TX mode)
Video resolution	Most desktop resolutions up to 4Kp60
Audio input/output	 Up to 8 channels of audio embedded in HDMI signal Unbalanced analog stereo input via 1/8" (3.5 mm) jack Line Level
Network connector	 2x SFP28 cages for ST 2110 media and In-band control on SFP 1 and SFP 2 10 GbE IEEE 802.3ae (10GBASE-SR/LR fiber module) 25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S) 25 GbE IEEE 802.3cc (25GBASE-LR) SFP2 for redundant media only Dedicated RJ45 management network interface for control only with PoE+(100/1000 Mbps)
RS-232	Yes ¹

Matrox Co	nvertIP DSH
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application)
Perfo	rmance
Maximum video resolutions	4096 x 2160 60p
Bit depth and color space	 YCbCr 4:2:0 10-bit¹ and 8-bit¹ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR²
Video and Audio Processing	
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler
Video deinterlacing	Yes ¹
Color space conversion	Yes
HDCP support	HDCP 1.4 and 2.2 support
Encodir	ng Formats
Video ³	 Uncompressed: HD 3 Gbps and 4K 12 Gbps Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content ProAV Colibri codec included 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps JPEG-XS codec upgrade required⁴ 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps
Audio	Uncompressed PCM (~1 Mbps/ch)
Latency	Less than a 1/4 frame (<4 ms)

Matrox ConvertIP DSH	
Net	work
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP
Supported protocols	 SMPTE ST 2110 (-10, -20, -21, -22, -30) SMPTE 2059 (-1, -2) IPMX
Redundancy	Yes (ST 2022-7)
Command and control	HTTPS over TCP
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1
PoE+	Yes (IEEE 802.3at Type 2)
Physical	
Product dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm
Unit weight	1.66 lbs / 755 g
Cooling	Fanless
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector

Matrox ConvertIP DSH	
Hardware a	and Software
Hardware included	ConvertIP DSH appliance
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁵ Rackmount kit (Part #: RMK-19TR-A)⁶ Angled bracket kit (Part #: RMK-6BRKT-A) Secure cable solution for HDMI (Part #: SK-SLND-4) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments
Enviro	nmental
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing

Matrox ConvertIP DSH	
General	
EMC/EMI device class	Class A
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)
Environmental compliance	China RoHSEU RoHSREACH
Warranty	Three-year limited warranty with free online or telephone support

- 1. Available in a future software update.
- 2. Limited support on HDMI models when using an SDP file to define colorimetry. Additional work is required to support HDR signaling in SDI workflows.
- 3. Bitrates will vary according to resolution.
- 4. For more information, contact your Matrox Video representative.
- 5. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 6. Can fit up to two ConvertIP DSH units in a 1RU space.

Matrox ConvertIP DRS specifications

These are the hardware technical specifications for the Matrox ConvertIP DRS.

Matrox ConvertIP DRS	
Pro	duct
Part numbers	CIP-DRSCIP-DRS2
Form factor	 Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal)
Connectivity	
Video input	TX mode: 1.5G, 3G, and 12G SDIRX mode: No input
Video output	TX mode: No outputRX mode: 1.5G, 3G, and 12G SDI
Video resolution	HD and 4K resolutions (including broadcast)
Genlock	Bi-Level output support
VANC ancillary data processing	Yes
Audio input/output	 Up to 16 channels of audio embedded in SDI output signal Unbalanced analog stereo input via 1/8" (3.5 mm) jack Line Level
Network connector	 3x RJ45 ports LAN 1 for Media and Control with PoE+ (1/2.5G) LAN 2 for redundant Media and Control (1/2.5G) Control LAN for Control data only (100/1000 Mbps)
RS-232	Yes ¹

Matrox ConvertIP DRS	
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application)
Perfor	rmance
Maximum video resolutions	4096 x 2160 60p
Bit depth and color space	 YCbCr 4:2:2 10-bit SDR/HDR¹
Video and Audio Processing	
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler
Video deinterlacing	Yes ¹
Color space conversion	Yes
HDCP support	Not applicable
Encoding	g Formats
Video ²	Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content • ProAV Colibri codec included • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps • JPEG-XS codec upgrade required ³ • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps
Audio	Uncompressed PCM (~1 Mbps/ch)
Latency	Less than a 1/4 frame (<4 ms)
Net	work
Network standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP

Matrox Con	nvertIP DRS	
Supported protocols	 SMPTE ST 2110 (-10, -20, -22, -30, -40) SMPTE 2059 (-1, -2) IPMX 	
Redundancy	Yes (ST 2022-7)	
Command and control	HTTPS over TCP	
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1	
PoE+	Yes (IEEE 802.3at Type 2)	
Physical		
Product dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm	
Unit weight	1.47 lbs / 665 g	
Cooling	Fanless	
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector 	
Hardware a	Hardware and Software	
Hardware included	ConvertIP DRS appliance	
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)	

Matrox Cor	nvertIP DRS	
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁴ Rackmount kit (Part #: RMK-19TR-A)⁵ Angled bracket kit (Part #: RMK-6BRKT-A) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB) 	
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments 	
Environmental		
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing 	
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing 	
Gen	neral	
EMC/EMI device class	Class A	
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ) 	
Environmental compliance	China RoHSEU RoHSREACH	
Warranty	Three-year limited warranty with free online or telephone support	

- 1. Available in a future software update.
- $2. \ \ Bitrates will vary according to resolution.$
- 3. For more information, contact your Matrox Video representative.
- $4. \ \ Part \ \# \ EPS40W-10PK \ does \ not \ include \ IEC-C14 \ power \ cord. \ These \ cables \ must \ be \ sourced \ locally.$

5. Can fit up to two ConvertIP DRS units in a 1RU space.

Matrox ConvertIP DSS specifications

These are the hardware technical specifications for the Matrox ConvertIP DSS.

Matrox Coi	nvertIP DSS
Pro	duct
Part numbers	CIP-DSSCIP-DSS2
Form factor	 Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal)
Conne	ectivity
Video input	TX mode: 1.5G, 3G, and 12G SDIRX mode: No input
Video output	TX mode: No outputRX mode: 1.5G, 3G, and 12G SDI
Video resolution	HD and 4K resolutions (including broadcast)
Genlock	Bi-Level output support
VANC ancillary data processing	Yes
Audio input/output	 Up to 16 channels of audio embedded in SDI output signal Unbalanced analog stereo input via 1/8" (3.5 mm) jack Line Level
Network connector	 2x SFP28 cages for ST 2110 media and In-band control on SFP 1 and SFP 2 10 GbE IEEE 802.3ae (10GBASE-SR/LR fiber module) 25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S) 25 GbE IEEE 802.3cc (25GBASE-LR) SFP2 for redundant media only Dedicated RJ45 management network interface for control with PoE+ (100/1000Mbps)

Matrox Coi	Matrox ConvertIP DSS	
RS-232	Yes ¹	
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application) 	
Perfor	mance	
Maximum video resolutions	4096 x 2160 60p	
Bit depth and color space	 YCbCr 4:2:2 10-bit SDR/HDR¹ 	
Video and Audio Processing		
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler	
Video deinterlacing	Yes ¹	
Color space conversion	Yes	
HDCP support	Not applicable	
Encodin	g Formats	
Video ²	 Uncompressed: HD 3 Gbps and 4K 12 Gbps Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content ProAV Colibri codec included 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps JPEG-XS codec upgrade required³ 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps 	
Audio	Uncompressed PCM (~1 Mbps/ch)	
Latency	Less than a 1/4 frame (<4 ms)	
Network		
Network standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet	

Matrox ConvertIP DSS		
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP 	
Supported protocols	 SMPTE ST 2110 (-10, -20, -21, -22, -30, -40¹) SMPTE 2059 (-1, -2) IPMX 	
Redundancy	Yes (ST 2022-7)	
Command and control	HTTPS over TCP	
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1	
PoE+	Yes (IEEE 802.3at Type 2)	
Physical		
Product dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm	
Unit weight	1.70 lbs / 770 g	
Cooling	Fanless	
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector 	

Matrox ConvertIP DSS	
Hardware a	and Software
Hardware included	ConvertIP DSS appliance
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)
	ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK) ⁴
Accessories (sold separately)	 Rackmount kit (Part #: RMK-19TR-A)⁵ Angled bracket kit (Part #: RMK-6BRKT-A) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments
Enviro	nmental
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing

Matrox ConvertIP DSS	
General	
EMC/EMI device class	Class A
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)
Environmental compliance	China RoHSEU RoHSREACH
Warranty	Three-year limited warranty with free online or telephone support

- 1. Available in a future software update.
- 2. Bitrates will vary according to resolution.
- 3. For more information, contact your Matrox Video representative.
- 4. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 5. Can fit up to two ConvertIP DSS units in a 1RU space.

Matrox ConvertIP SRST specifications

These are the hardware technical specifications for the Matrox ConvertIP SRST.

Matrox Con	vertIP SRST		
Pro	duct		
Part numbers	• CIP-SRST • CIP-SRST2		
Form factor	 Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal) 		
Conne	Connectivity		
Video input	TX mode: HDBaseT™ v3 RX mode: No input		
Video output	TX mode: No input RX mode: HDBaseT™ v3		
Video resolution	HD and 4K resolutions (including broadcast)		
Audio input/output	Up to 8 channels of audio embedded		
Network connector	 1x RJ45 LAN for Media and Control with PoE+ 1x SFP28 cages for Media and Control 10 GbE IEEE 802.3ae (10GBASE-SR/LR fiber module) 25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S) 25 GbE IEEE 802.3cc (25GBASE-LR) 		
RS-232	No		
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application) 		
Performance			
Maximum video resolutions	4096 x 2160 60p		

Matrox Con	wertIP SRST
Bit depth and color space	 YCbCr 4:2:0 10-bit¹ and 8-bit¹ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR¹
video and Au	dio Processing
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler
Video deinterlacing	Yes ¹
Color space conversion	Yes
HDCP support	HDCP 1.4 and 2.2 support
Encoding Formats	
Video ²	 Uncompressed HD 3 Gbps and 4K 12 Gbps Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content ProAV Colibri codec included 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps JPEG-XS codec upgrade required³ 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps
Audio	Uncompressed PCM (~1 Mbps/ch)
Latency	Less than a 1/4 frame (<4 ms)
Net	work
Network standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP
Supported protocols	 SMPTE ST 2110 (-10, -20, -21, -22, -30) SMPTE 2059 (-1, -2) IPMX
Redundancy	No

Matrox ConvertIP SRST		
Command and control	HTTPS over TCP	
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1	
PoE+	Yes (IEEE 802.3at Type 2)	
Physical		
Product dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm	
Unit weight	1.70 lbs / 770 g	
Cooling	Fanless	
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector 	
Hardware a	Hardware and Software	
Hardware included	ConvertIP SRST appliance	
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)	
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁴ Rackmount kit (Part #: RMK-19TR-A)⁵ Angled bracket kit (Part #: RMK-6BRKT-A) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB) 	
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments 	

Matrox ConvertIP SRST	
Enviro	nmental
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing
General	
EMC/EMI device class	Class A
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)
Environmental compliance	China RoHSEU RoHSREACH
Warranty	Three-year limited warranty with free online or telephone support

- 1. Available in a future software update
- 2. Bitrates will vary according to resolution.
- ${\it 3. \ \ For more information, contact your \ Matrox \ Video \ representative.}$
- $4. \ \ Part \ \# \ EPS40W-10PK \ does \ not \ include \ IEC-C14 \ power \ cord. \ These \ cables \ must \ be \ sourced \ locally.$
- 5. Can fit up to two ConvertIP SRST units in a 1RU space.

Matrox ConvertIP SRS specifications

These are the hardware technical specifications for the Matrox ConvertIP SRS.

Matrox ConvertIP SRS	
Product	
Part numbers	CIP-SRSCIP-SRS2
Form factor	 Standalone appliance Rack-mountable: 1U, 1/3 rack (horizontal)
Connectivity	
Video input	TX mode: 12G SDI RX mode: No input
Video output	TX mode: No outputRX mode: 12G SDI
Video resolution	HD and 4K resolutions (including broadcast)
Genlock	No
VANC ancillary data processing	Yes
Audio input/output	Up to 16 channels of audio embedded in SDI output signal
Network connector	1x RJ45 LAN port for Media and Control with PoE+ (1/2.5G)
RS-232	No
Control and management	 Matrox ConvertIP Command Center (web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application)
Performance	
Maximum video resolutions	4096 x 2160 60p
Bit depth and color space	 YCbCr 4:2:2 10-bit SDR/HDR¹

Matrox ConvertIP SRS	
Video and Audio Processing	
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler
Video deinterlacing	Yes ¹
Color space conversion	Yes
HDCP support	Not applicable
Encoding Formats	
Video ²	Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content • ProAV Colibri codec included • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps • JPEG-XS codec upgrade required ³ • 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps
Audio	Uncompressed PCM (~1 Mbps/ch)
Latency	Less than a 1/4 frame (<4 ms)
Network	
Network standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet
IP addressing	 IPv4 IPv6¹ DHCP (default) and static IP
Supported protocols	 SMPTE ST 2110 (-10, -22, -30, -40¹) SMPTE 2059 (-1, -2) IPMX
Redundancy	No
Command and control	HTTPS over TCP
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1
PoE+	Yes (IEEE 802.3at Type 2)

Matrox ConvertIP SRS	
Physical	
Product dimensions	7.88 (D) x 5.5 (W) x 1.39 (H) inches 200 (D) x 138 (W) x 35 (H) mm
Unit weight	1.09 lbs / 495 g
Cooling	Fanless
Power	 Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector
Hardware and Software	
Hardware included	ConvertIP SRS appliance
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)
Accessories (sold separately)	 ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁴ Rackmount kit (Part #: RMK-19TR-A)⁵ Angled bracket kit (Part #: RMK-6BRKT-A) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments

Matrox ConvertIP SRS	
Environ	nmental
Operating conditions	 Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing
General	
EMC/EMI device class	Class A
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)
Environmental compliance	China RoHSEU RoHSREACH
Warranty	Three-year limited warranty with free online or telephone support

- 1. Available in a future software update.
- 2. Bitrates will vary according to resolution.
- ${\it 3. \ \ For more information, contact your \ Matrox \ Video \ representative.}$
- 4. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 5. Can fit up to three ConvertIP SRS units in a 1RU space.

Matrox ConvertIP SDM specifications

These are the hardware technical specifications for the Matrox ConvertIP SDM.

Matrox ConvertIP SDM	
Product	
Part number	CIP-SDM2
Form factor	Intel * Smart Display Module (Large format)
Connectivity	
Video output	Via Intel [®] SDM connector
Video resolution	Most desktop resolutions up to 4Kp60
Audio input/output	Up to 8 channels of audio
Network connector ¹	 2x SFP28 cages for ST 2110 media and in-band control on SFP 1 and SFP 2 10 GbE IEEE 802.3ae (10GBASE-SR/LR fiber module) 25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S) 25 GbE IEEE 802.3cc (25GBASE-LR) LAN 1 and LAN 2 for media and in-band control (RJ45 1/2.5G) Control LAN for Control data only (RJ45 1G) *LAN 2 and SFP2 for redundant media only
Control and management	 Matrox ConvertIP Command Center (Web UI) NMOS support (ConductIP) Matrox ConvertIP Manager (software application)
Performance	
Maximum video resolutions	4096 x 2160 60p *All standard desktop GPU resolutions supported

Matrox ConvertIP SDM	
Bit depth and color space	 YCbCr 4:2:0 10-bit and 8-bit SDR/HDR² RGB 4:4:4 8-bit and 10-bit³ YCbCr 4:2:2 10-bit
Video and Au	dio Processing
Video scaling	High Quality multi-tap 10-bit Up/Down Scaler
Video deinterlacing	Yes ⁴
Color space conversion	Yes
HDCP support	HDCP 1.4 and 2.2 support
Encoding Formats	
Video ⁵	 Uncompressed HD 3 Gbps and 4K 12 Gbps Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content ProAV Colibri codec included 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps JPEG-XS codec upgrade required⁶ 4:2:2 10-bit YUV and 4:4:4 8-bit RGB; 100 to 2000 Mbps
Audio	Uncompressed PCM (~1 Mbps/ch)
Latency	Less than a 1/4 frame (<4 ms)
Net	work
IP addressing	 IPv4 IPv6⁴ DHCP (default) and static IP
Supported protocols	 SMPTE ST 2110 (-10, -20, -22, -30⁴) SMPTE 2059 (-1, -2) IPMX
Redundancy	Yes (ST 2022-7)
Command and control	HTTPS over TCP

Matrox ConvertIP SDM		
Discovery, registration and control	NMOS discovery and control according to standards IS-04 v1.2 and 1.3 and IS-05 v1.0 and 1.1	
Physical		
Product dimensions	With bracket: 125 (D) x 196 (W) mm Without bracket: 116 (D) x 174 (W) mm	
Unit weight	237 g	
Fan	Low noise emissions (<24 dB)	
Power	Conforms to Intel SDM-L power consumption range	
Hardware and Software		
Hardware included	ConvertIP SDM receiver	
Optional hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA2Y)	
Optional software	 JPEG-XS codec license Crestron Module to expand existing controlled environments 	
Enviro	Environmental	
Operating conditions	Conform to Intel SDM-L specifications	
Storage conditions	 Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing 	

Matrox ConvertIP SDM	
General	
EMC/EMI device class	Class A
EMC/EMI compliance	 CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)
Environmental compliance	China RoHSEU RoHSREACH
Warranty	Two-year limited warranty with free online or telephone support

- 1. Operators must choose between SFP 1, 2 or LAN 1, 2 for media transport.
- 2. Limited support on HDMI models when using an SDP file to define colorimetry. Additional work is required to support HDR signaling in SDI workflows.
- 3. HDMI 2.0 specifications do not support 4:4:4 10-bit at 4K at 60 fps.
- 4. Available in a future software update.
- 5. Bitrates will vary according to resolution.
- 6. For more information, contact your Matrox Video representative.

Appendix A

Configuring your device's firewall settings

This appendix includes the following topics:

Matrox ConvertIP firewall port configuration

Matrox ConvertIP firewall port configuration

The following are the firewall port recommendations for your ConvertIP.

Port	TCP/UDP	Media	Control	Configurable	Description
53	TCP/UDP	X	X		DNS
68	UDP	X	X		DHCP Client
80	ТСР	X	X		НТТР
123	UDP	X	X		NTP (Network Time Protocol)
319	UDP	X			PTP
320	UDP	X			PTP
443	ТСР	X	X		HTTPS
546	UDP	X	X		DHCPv6 Client
636	ТСР	X	X		LDAPS (LDAP over SSL)
3210	ТСР	X	X	X	NMOS server
3211	ТСР	X	X	X	NMOS Query API
5004	UDP	X		X	RTP (Real-Time Protocol)
RTP+1	UDP	X		X	RTCP (Real-Time Control Protocol)
5050	TCP	X	X	X	NMOS server
NMOS+1	ТСР	X	X	X	HDCP Key Exchange Protocol server
5353	UDP	X	Х		mDNS (Multicast DNS)
5355	UDP	X	X		LLMNR (Link-Local Multicast Name Resolution)
8080	TCP	X	Х		HTTP Alternate
8443	ТСР	X	X		HTTPS Alternate

Appendix B

Providing adequate airflow to your ConvertIP device

This appendix includes the following topics:

Matrox ConvertIP airflow recommendations

Matrox ConvertIP airflow recommendations

Because your ConvertIP device disperses heat, it requires adequate airflow to ensure proper operation and to prevent damage. The following provides guidelines for effective airflow around your device.

- Leave the proper amount of room around your device. To prevent airflow restriction, we recommend allowing *at least* 0.75 inches (1.91 cm) of clearance between the top of your device and anything above it. More space may be required depending on your environment.
- When your device is resting on a good insulator like wood or cardboard, make sure your device is resting on the original rubber feet. If installed on a metal tray, or on a rack, the rubber feet can be removed.
- Operate your device in a well ventilated location. Don't operate your device near a heat source or restrict airflow to your device (for example, by operating your device inside a desk cabinet).
- Monitor your ambient temperatures. Make sure the ambient temperature doesn't exceed the maximum recommended temperatures. For more information on supported operating temperatures, see "Matrox ConvertIP Hardware Specifications" on page 67.

Part # V11579-301-0240

Last updated: March 20, 2025

Appendix C

ConvertIP LED status indicators and button functions

This appendix includes the following topics:

- ConvertIP LED status indicators
- ConvertIP button functions

ConvertIP LED status indicators

The tables below describe the behavior of the LEDs on the various ConvertIP models.

ConvertIP SRH

LED	Colors	What it means				
	Front of ConvertIP					
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.				
	Green (flashing)	ConvertIP is booting up.				
TX / RX	Green (solid)	TX lit: ConvertIP is in TX mode and operating normally. RX lit: ConvertIP is in RX mode and operating normally.				
	Orange (flashing)	A firmware update is in progress.				
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.				
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.				
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.				
Status	Green (solid)	ConvertIP is idle but operating normally.				
	Orange (flashing)	Test signal being sent or firmware being updated.				
	Orange (flashing quickly)	DHCP network not found.				
	Orange (solid)	Warning condition.				
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.				
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.				

LED	Colors	What it means				
	Rear of ConvertIP					
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.				
	Green (flashing)	ConvertIP is booting up.				
HDMI IN	Green (solid)	ConvertIP is in TX mode and operating normally.				
	Orange (flashing)	A firmware update is in progress.				
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.				
	Green (flashing)	ConvertIP is booting up.				
HDMI OUT	Green (solid)	ConvertIP is in RX mode and operating normally.				
	Orange (flashing)	A firmware update is in progress.				
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.				

ConvertIP DRH

LED	Colors	What it means			
Front of ConvertIP					
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up.			
TX / RX	Green (solid)	TX lit: ConvertIP is in TX mode and operating normally. RX lit: ConvertIP is in RX mode and operating normally.			
	Orange (flashing)	A firmware update is in progress.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.			
Status	Green (solid)	ConvertIP is idle but operating normally.			
	Orange (flashing)	Test signal being sent or firmware being updated.			
	Orange (flashing quickly)	DHCP network not found.			
	Orange (solid)	Warning condition.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Rear of C	onvertIP			
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up.			
HDMI IN	Green (solid)	ConvertIP is in TX mode and operating normally.			
	Orange (flashing)	A firmware update is in progress.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			

LED	Colors	What it means
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.
	Green (flashing)	ConvertIP is booting up.
HDMI OUT	Green (solid)	ConvertIP is in RX mode and operating normally.
	Orange (flashing)	A firmware update is in progress.
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.

ConvertIP DSH

LED Colors		What it means		
Front of ConvertIP				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
On = TX / Off = RX	Green (solid)	ConvertIP is in TX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.		
	Green (solid)	ConvertIP is idle but operating normally.		
Status	Orange (flashing)	Test signal being sent or firmware being updated.		
	Orange (flashing quickly)	DHCP network not found.		
	Orange (solid)	Warning condition.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		

LED	Colors	What it means		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, is in uncompressed 25G mode and operating normally (TX or RX).		
On = Uncomp / Off = Comp	Green (solid)	ConvertIP is in uncompressed mode and operating normally (TX or RX).		
Comp	Black (LED not lit)	ConvertIP is in compressed mode and operating normally (TX or RX).		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
Rear of ConvertIP				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
HDMI IN	Green (solid)	ConvertIP is in TX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
HDMI OUT	Green (solid)	ConvertIP is in RX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		

LED	Colors	What it means
	Green (flashing)	Link with activity.
SFPs	Green (solid)	Link with no activity.
3178	Black (LED not lit)	No SFP connected.
	Yellow (solid)	No link.

ConvertIP DRS

LED	Colors	What it means		
Front of ConvertIP				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
	Green (solid)	ConvertIP is in TX mode and operating normally.		
TX / RX	Black (LED not lit)	ConvertIP is in RX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.		
	Green (solid)	ConvertIP is idle but operating normally.		
Status	Orange (flashing)	Test signal being sent or firmware being updated.		
	Orange (flashing quickly)	DHCP network not found.		
	Orange (solid)	Warning condition.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
Rear of ConvertIP				
12C CD1	Red (solid)	ConvertIP is in RX mode and operating normally.		
12G SDI	Green (solid)	ConvertIP is in TX mode and operating normally.		

ConvertIP DSS

LED	Colors	What it means		
Front of ConvertIP				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
	Green (solid)	ConvertIP is in TX mode and operating normally.		
On = TX / Off = RX	Black (LED not lit)	ConvertIP is in RX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.		
	Green (solid)	ConvertIP is idle but operating normally.		
Status	Orange (flashing)	Test signal being sent or firmware being updated.		
	Orange (flashing quickly)	DHCP network not found.		
	Orange (solid)	Warning condition.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		

LED	Colors	What it means	
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.	
	Green (flashing)	ConvertIP is booting up or, if already booted, is in uncompressed 25G mode and operating normally (TX or RX).	
On = Uncomp / Off = Comp	Green (solid)	ConvertIP is in uncompressed mode and operating normally (TX or RX).	
Comp	Black (LED not lit)	ConvertIP is in compressed mode and operating normally (TX or RX).	
	Orange (flashing)	A firmware update is in progress.	
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.	
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.	
Rear of ConvertIP			
	Green (flashing)	Link with activity.	
SFPs	Green (solid)	Link with no activity.	
SFFS	Black (LED not lit)	No SFP connected.	
	Yellow (solid)	No link.	
12G SDI	Red (solid)	ConvertIP is in RX mode and operating normally.	
12G 9D1	Green (solid)	ConvertIP is in TX mode and operating normally.	

ConvertIP SRST

LED	Colors	What it means		
Front of ConvertIP				
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up.		
	Green (solid)	ConvertIP is in TX mode and operating normally.		
On = TX / Off = RX	Black (LED not lit)	ConvertIP is in RX mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.		
	Green (solid)	ConvertIP is idle but operating normally.		
Status	Orange (flashing)	Test signal being sent or firmware being updated.		
	Orange (flashing quickly)	DHCP network not found.		
	Orange (solid)	Warning condition.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		

LED	Colors	What it means		
On = Uncomp / Off = Comp	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, is in uncompressed 25G mode and operating normally (TX or RX).		
	Green (solid)	ConvertIP is in uncompressed mode and operating normally (TX or RX).		
	Black (LED not lit)	ConvertIP is in compressed mode and operating normally (TX or RX).		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
Rear of ConvertIP				
SFP	Green (flashing)	Link with activity.		
	Green (solid)	Link with no activity.		
	Black (LED not lit)	No SFP connected.		
	Yellow (solid)	No link.		

ConvertIP SRS

LED	Colors	What it means			
Front of ConvertIP					
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up.			
	Green (solid)	ConvertIP is in TX mode and operating normally.			
TX / RX	Black (LED not lit)	ConvertIP is in RX mode and operating normally.			
	Orange (flashing)	A firmware update is in progress.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.			
	Green (solid)	ConvertIP is idle but operating normally.			
Status	Orange (flashing)	Test signal being sent or firmware being updated.			
	Orange (flashing quickly)	DHCP network not found.			
	Orange (solid)	Warning condition.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			
Rear of ConvertIP					
12G SDI	Red (solid)	ConvertIP is in RX mode and operating normally.			
	Green (solid)	ConvertIP is in TX mode and operating normally.			

ConvertIP SDM

LED	Colors	What it means			
Front of ConvertIP					
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up.			
On = RJ45 / Off = SFP	Green (solid)	ConvertIP is in LAN/RJ45 mode and operating normally.			
	Black (LED not lit)	ConvertIP is in SFP mode and operating normally.			
	Orange (flashing)	A firmware update is in progress.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			
	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.			
	Green (flashing)	ConvertIP is booting up or, if already booted, ConvertIP is in the process of sending or receiving.			
	Green (solid)	ConvertIP is idle but operating normally.			
Status	Orange (flashing)	Test signal being sent or firmware being updated.			
	Orange (flashing quickly)	DHCP network not found.			
	Orange (solid)	Warning condition.			
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.			
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.			

LED	Colors	What it means		
On = Uncomp / Off = Comp	Red (solid)	ConvertIP is off-line. If the condition persists after reboot, contact Matrox Video technical support.		
	Green (flashing)	ConvertIP is booting up or, if already booted, is in uncompressed 25G mode and operating normally.		
	Green (solid)	ConvertIP is in uncompressed mode and operating normally.		
	Black (LED not lit)	ConvertIP is in compressed mode and operating normally.		
	Orange (flashing)	A firmware update is in progress.		
	All LEDs Orange (solid)	ConvertIP physical buttons are disabled.		
	Red/green/orange (flashing)	The ConvertIP "locate" option has been started.		
Rear of ConvertIP				
SFPs	Green (flashing)	Link with activity.		
	Green (solid)	Link with no activity.		
	Black (LED not lit)	No SFP connected.		
	Yellow (solid)	No link.		

ConvertIP button functions

The table below describes the behavior of the **Test**, **Mode**, and **Reset** buttons on the ConvertIP.

Button	Action	What it does
Test	Press and hold for 10 seconds. Repeat action for 5 seconds to stop.	Sends a test signal to the output.
	Press and hold for 1 second.	Clears warning LED.
Mode	Press and hold with Reset button for 1 second.	Toggle between TX and RX modes (all models except SDM) or between SFP and LAN/RJ45 (SDM only).
	Press and hold for 1 second.	Reboots the ConvertIP.
Reset	Press and hold for 10 seconds.	Resets ConvertIP to factory default settings.

Appendix D

Matrox ConvertIP test pattern

This appendix includes the following topics:

• Test pattern example

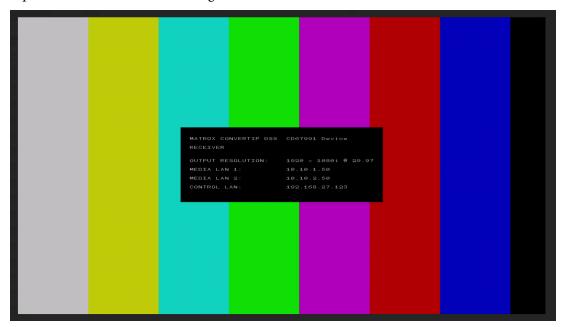
Test pattern example

The image included in this section is an example of what a typical test pattern looks like when you activate the option.

You can activate the test pattern in two ways:

- Press the **Test** button on your ConvertIP device for approximately 10 seconds. Press it again for 5 seconds to return to normal operation.
- From the ConvertIP Command Center (Settings > AV and stream configuration > Video and audio > Force test pattern output).

This information can help you find the ConvertIP device on a DHCP network, or provide required details for troubleshooting:



```
MATROX CONVERTIP DSS CD67991 Device
RECEIVER
OUTPUT RESOLUTION: 1920 × 1080i @ 29.97
MEDIA LAN 1: 10.10.1.50
MEDIA LAN 2: 10.10.2.50
CONTROL LAN: 192.168.27.123
```

The following information is provided:

- The ConvertIP model and device name.
- The operating mode (Receiver or Transmitter).
- The currently configured resolution.
- The IP addresses for the different connected LAN ports.

Appendix E

Legal information and compliance

This appendix includes the following topics:

- Compliance statements
- Disclaimers

Compliance statements

USA

FCC Compliance Statement

Remark for the Matrox hardware products supported by this guide This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING Changes or modifications to this unit not expressly approved by the party responsible for the compliance could void the user's authority to operate this equipment. The use of shielded cables for connection of the monitor to the card is required to meet FCC requirements.

CANADA

(English) Innovation, Science and Economic Development Canada

Remark for the Matrox hardware products supported by this guide These digital apparatus does not exceed the Class A limits for radio noise emission from digital devices set out in the Radio Interference Regulation of Innovation, Science and Economic Development Canada.

(Français) Innovation, Sciences et Développement économique Canada

Remarque sur les produits matériels Matrox couverts par ce guide Ce present appareil numérique n'émet aucun bruit radioélectrique dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par Innovation, Sciences et Développement économique Canada.

UNITED KINGDOM

United Kingdom user's information - Declaration of Conformity

Remark for the Matrox hardware products supported by this guide These devices comply with Directive UK SI 2016 No. 1091 relating to electromagnetic compatibility for a Class A digital device. They have been tested and found to comply with EN55032/CISPR32 and EN55035/CISPR35. In a domestic environment these products may cause radio interference in which case the user may be required to take adequate measures. To meet UK requirements, shielded cables must be used to connect the monitor and other peripherals to the card. These products have been tested in a typical class A compliant host system. It is assumed that these products will also achieve compliance in any class A compliant system.

JAPAN

VCCI Compliance Statement

Remark for the Matrox hardware products supported by this guide This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

KOREA

A 급 기기 (업무용 방송통신기자재)

이 기기는 업무용 (A 급) 전자파적합기기로서 판 매자 또는 사용자는 이 점을 주의하시기 바라 며, 가정 외의 지역에서 사용하는 것을 목적으 로 합니다.

EUROPE

(English) European user's information - Declaration of Conformity

Remark for the Matrox hardware products supported by this guide These devices comply with EC Directive 2014/30/EU for a Class A digital device. They have been tested and found to comply with EN55032/CISPR32 and EN55035/CISPR35. In a domestic environment these products may cause radio interference in which case the user may be required to take adequate measures. To meet EC requirements, shielded cables must be used to connect the monitor and other peripherals to the card. These products have been tested in a typical class A compliant host system. It is assumed that these products will also achieve compliance in any class A compliant system.

Part # V11579-301-0240 Last updated: March 20, 2025

(Français) Informations aux utilisateurs Européens - Déclaration de conformité

Remarque sur les produits matériels Matrox couverts par ce guide Ces unités sont conformes à la directive communautaire 2014/30/EU pour les unités numériques de classe A. Les tests effectués ont prouvé qu'elles sont conformes aux normes EN55032/CISPR32 et EN55035/CISPR35. Le fonctionnement de ces produits dans un environnement résidentiel peut causer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre les mesures appropriées. Pour respecter les impératifs communautaires, les câbles de connexion entre le moniteur ou autres périphériques et la carte doivent être blindés. Ces produits ont été testés dans un système hôte typique compatible classe A. On suppose qu'ils présenteront la même compatibilité dans tout système compatible classe A.

(Deutsch) Information für europäische Anwender - Konformitätserklärung

Anmerkung für die Matrox Hardware-Produktunterstützung durch dieses Handbuch Diese Geräte entsprechen EC Direktive 2014/30/EU für ein digitales Gerät Klasse A. Sie wurden getestet und entsprechen demnach EN55032/CISPR32 und EN55035/CISPR35. In einer Wohnumgebung können diese Produkte Funkinterferenzen erzeugen, und der Benutzer kann genötigt sein, entsprechende Maßnahmen zu ergreifen. Um EG-Anforderungen zu entsprechen, müssen zum Anschließen des Monitors und anderer Peripheriegeräte an die Karte abgeschirmte Kabel verwendet werden. Diese Produkt wurden in einem typischen, der Klasse A entsprechenden, Host-System getestet. Es wird davon ausgegangen, daß diese Produkte auch in jedem Klasse A entsprechenden System entsprechend funktionieren.

(Italiano) Informazioni per gli utenti europei – Dichiarazione di conformità

Nota per i prodotti hardware Matrox supportati da questa guida — Questi dispositivi sono conformi alla direttiva CEE 2014/30/EU elativamente ai dispositivi digitali di Classe A. Sono stati provati e sono risultati conformi alle norme EN55032/CISPR32 e EN55035/CISPR35. In un ambiente domestico, questi prodotti possono causare radiointerferenze, nel qual caso all'utente potrebbe venire richiesto di prendere le misure adeguate. Per soddisfare i requisiti CEE, il monitor e le altre periferiche vanno collegati alla scheda grafica con cavi schermati. Questi prodotti sono stati provati in un tipico sistema host conforme alla classe A. Inoltre, si dà per scontato che questi prodotti acquisiranno la conformità in qualsiasi sistema conforme alla classe A.

(Español) Información para usuarios europeos - Declaración de conformidad

Observación referente a los productos de hardware de Matrox apoyados por este manual Estos dispositivos cumplen con la directiva de la CE 2014/30/EU para dispositivos digitales de Clase A. Dichos dispositivos han sido sometidos a prueba y se ha comprobado que cumplen con las normas EN55032/CISPR32 y EN55035/CISPR35. En entornos residenciales, estos productos pueden causar interferencias en las comunicaciones por radio; en tal caso el usuario deberá adoptar las medidas adecuadas. Para satisfacer las disposiciones de la CE, deberán utilizarse cables apantallados para conectar el monitor y demás periféricos a la tarjeta. Estos productos han sido sometidos a prueba en un típico sistema anfitrión que responde a los requisitos de la clase A. Se supone que estos productos cumplirán también con las normas en cualquier sistema que responda a los requisitos de la clase A.

EUROPE

(English) European user's information – Directive on Waste Electrical and Electronic Equipment (WEEE)





(Français) Informations aux utilisateurs Européens – Règlementation des déchets d'équipements électriques et électroniques (DEEE)

Se référer au site Web de Matrox (https://video.matrox.com/en/environment/product-waste-management) pour l'information concernant le recyclage

(Deutsch) Information für europäische Anwender – Europäische Regelungen zu Elektro- und Elektronikaltgeräten (WEEE)

Bitte wenden Sie sich an der Matrox-Website (https://video.matrox.com/en/environment/product-waste-management) für Recycling-Informationen.

(Italiano) Informazioni per gli utenti europei – Direttiva sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)

Si prega di riferirsi al sito Web Matrox (https://video.matrox.com/en/environment/product-waste-management) per le informazioni di riciclaggio.

FRANCE

Avertissement sur l'épilepsie

À lire avant toute utilisation d'un jeu vidéo par vous-même ou votre enfant Certaines personnes sont susceptibles de faire des crises d'épilepsie ou d'avoir des pertes de conscience à la vue de certains types de lumières clignotantes ou d'éléments fréquents dans notre environnement quotidien. Ces personnes s'exposent à des crises lorsqu'elles regardent certaines images télévisées ou qu'elles jouent à certains jeux vidéo. Ces phénomènes peuvent apparaître alors même que le sujet n'a pas d'antécédent médical ou n'a jamais été confronté à une crise d'épilepsie.

Si vous-même ou un membre de votre famille avez déjà présenté des symptômes liés à l'épilepsie (crise ou perte de conscience) en présence de stimulations lumineuses, veuillez consulter votre médecin avant toute utilisation.

Nous conseillons aux parents d'être attentifs à leurs enfants lorsqu'ils jouent avec des jeux vidéo. Si vous-même ou votre enfant présentez un des symptômes suivants: vertige, trouble de la vision, contraction des yeux ou des muscles, perte de conscience, trouble de l'orientation, mouvement involontaire ou convulsion, veuillez immédiatement cesser de jouer et consultez un médecin.

Part # V11579-301-0240 Last updated: March 20, 2025

Précautions à prendre dans tous les cas pour l'utilisation d'un jeu vidéo Ne vous tenez pas trop près de l'écran. • Jouez à bonne distance de l'écran de TV et aussi loin que le permet le cordon de raccordement. • Utilisez de préférence les jeux de vidéo sur un écran de petite taille. • Évitez de jouer si vous êtes fatigué ou si vous manquez de sommeil. • Assurez-vous que vous jouez dans une pièce bien éclairée. • En cours d'utilisation, faites des pauses de dix à quinze minutes toutes les heures.

Disclaimers

(English) Disclaimer

THE INFORMATION IN THIS GUIDE IS SUBJECT TO CHANGE AT ANY TIME AND WITHOUT NOTICE.

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(Français) Responsabilité

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(Deutsch) Haftungsablehnungserklärung

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(Español) Renuncia

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Compliance Statements

USA

FCC Compliance Statement

Remark for the Matrox hardware products supported by this guide

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for the compliance could void the user's authority to operate this equipment. The use of shielded cables for connection of equipment and other peripherals to the card is required to meet FCC requirements.

Canada

(English) Innovation, Science and Economic Development Canada

CAN ICES-3 (A)/NMB-3 (A)

Remark for the Matrox hardware products supported by this guide

These digital devices do not exceed the Class A limits for radio noise emission from digital devices set out in the Radio Interference Regulation of Innovation, Science and Economic Development Canada.

(Français) Innovation, Sciences et Développement économique Canada

CAN ICES-3 (A)/NMB-3 (A)

Remarque sur les produits matériels Matrox couverts par ce guide

Ces appareils numériques n'émettent aucun bruit radioélectrique dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par Innovation, Sciences et Développement économique Canada.

Europe

(English) European user's information - Declaration of Conformity

Remark for the Matrox hardware products supported by this guide

These devices comply with EC Directive 2014/30/EU for a Class A digital device. They have been tested and found to comply with EN55032/CISPR32 and EN55024/CISPR24. In a domestic environment these products may cause radio interference in which case the user may be required to take adequate measures. To meet EC requirements, shielded cables must be used to connect equipment and other peripherals. These products have been tested in a typical Class A compliant host system. It is assumed that these products will also achieve compliance in any Class A compliant system.

(Français) Informations aux utilisateurs Européens - Déclaration de conformité

Remarque sur les produits matériels Matrox couverts par ce guide

Ces unités sont conformes à la directive communautaire 2014/30/EU pour les unités numériques de classe A. Les tests effectués ont prouvé qu'elles sont conformes aux normes EN55032/CISPR32 et EN55024/CISPR24. Le fonctionnement de ces produits dans un environnement résidentiel peut causer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre les mesures appropriées. Pour respecter les impératifs communautaires, les câbles de connexion entre l'équipement et ses périphériques doivent être blindés. Ces produits ont été testés dans un système hôte typique compatible classe A. On suppose qu'ils présenteront la même compatibilité dans tout système compatible classe A.

(Deutsch) Information für europäische Anwender – Konformitätserklärung Anmerkung für die Matrox Hardware-Produktunterstützung durch dieses Handbuch

Diese Geräte entsprechen EG Direktive 2014/30/EU für ein digitales Gerät Klasse A. Sie wurden getestet und entsprechen demnach EN55032/CISPR32 und EN55024/CISPR24. In einer Wohnumgebung können diese Produkte Funkinterferenzen erzeugen, und der Benutzer kann genötigt sein, entsprechende Maßnahmen zu ergreifen. Um EG-Anforderungen zu entsprechen, müssen zum Anschließen des ausrüstung und anderer Peripheriegeräte abgeschirmte Kabel verwendet werden. Diese Produkt wurden in einem typischen, der Klasse A entsprechenden, Host-System getestet. Es wird davon ausgegangen, daß diese Produkte auch in jedem Klasse A entsprechenden System entsprechend funktionieren.

(Italiano) Informazioni per gli utenti europei – Dichiarazione di conformità

Nota per i prodotti hardware Matrox supportati da questa guida

Questi dispositivi sono conformi alla direttiva CEE 2014/30/EU relativamente ai dispositivi digitali di Classe A. Sono stati provati e sono risultati conformi alle norme EN55032/CISPR32 e EN55024/CISPR24. In un ambiente domestico, questi prodotti possono causare radiointerferenze, nel qual caso all'utente potrebbe venire richiesto di prendere le misure adeguate. Per soddisfare i requisiti CEE, l'apparecchiatura e le altre periferiche vanno collegati con cavi schermati. Questi prodotti sono stati provati in un tipico sistema host conforme alla Classe A. Inoltre, si dà per scontato che questi prodotti acquisiranno la conformità in qualsiasi sistema conforme alla Classe A.

(Español) Información para usuarios europeos - Declaración de conformidad

Observación referente a los productos de hardware de Matrox apoyados por este manual

Estos dispositivos cumplen con la directiva de la CE 2014/30/EU para dispositivos digitales de Clase A. Dichos dispositivos han sido sometidos a prueba y se ha comprobado que cumplen con las normas EN55032/CISPR32 y EN55024/CISPR24. En entornos residenciales, estos productos pueden causar interferencias en las comunicaciones por radio; en tal caso el usuario deberá adoptar las medidas adecuadas. Para satisfacer las disposiciones de la CE, deberán utilizarse cables apantallados para conectar el equipo y demás periféricos. Estos productos han sido sometidos a prueba en un típico sistema anfitrión que responde a los requisitos de la Clase A. Se supone que estos productos cumplirán también con las normas en cualquier sistema que responda a los requisitos de la Clase A.

Korea

A 급 기기 (업무용 방송통신기자재)

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