Matrox **P690 Series**

Ultra-low power consumption. Fanless cooling. Easy to deploy.

With maximum power consumption ranging between 10W and 12W, the P690 Series of graphics cards delivers the lowest power multi-monitor graphics offering available industry wide. The combination of ultra-low power consumption with best-of-breed 2D image quality and unified drivers makes the P690 Series ideal for a wide range of professional applications—from financial, enterprise, and government systems to industrial workstations, embedded computers, digital audio workstations, and digital signage.

P690 Series Features & Benefits

Expanded Multi-Display Options

Set two digital or analog monitors as one large desktop, or at independent resolutions and display orientations. Upgrade the P690 Plus to drive up to four analog monitors, or place two cards in your system to support four DVI displays.

Flexible, Wide Enterprise Support

With six different cards, in a range of form factors, the P690 Series provides wide system coverage and cross-system compatibility.

Easily roll out DualHead configurations then upgrade to four-monitor support by simply changing a cable without the need to open the system chassis or upgrade display drivers.

Use the unattended install package to deploy and maintain multiple systems

Proven and Mature Driver Software

The unified display driver architecture ensures one driver package can be used to manage multiple Matrox products

Ultra-Low Power Consumption and Passive Cooling

The fanless design eliminates noise, enhances product reliability, and improves system compatibility. The P690 Series has high mean-time-between-failure (MTBF), providing a stable and reliable hardware and software solution, while substantially decreasing power consumption across your entire installed base.

Productivity Enhancing Features

Increase your productivity by stacking or pivoting individual monitors. Enjoy more screen real estate as a result of support for wide-screen and stretched resolutions for up to 1920x1200 (DVI).

Support multiple form factors.
The P690 Series is comprised of six different cards—ATX or low-profile, PCI or PCIe—supporting a wide range of systems.

Pair cards to increase number of displays.
Use PowerDesk joined-graphics-card mode to drive either four DVI or eight analog displays.
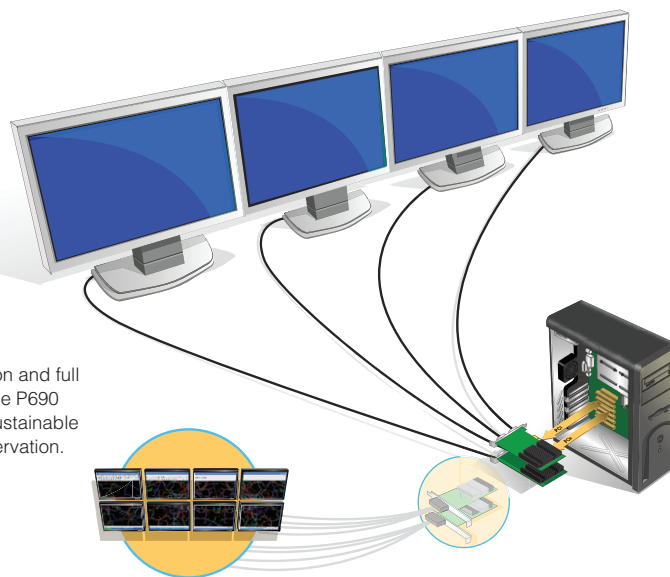
Your desktop. Displayed your way.
Stretch your desktop across all displays, or have each monitor display content independently. Configure your desktop the way you wish using Matrox PowerDesk software.

Green is good.
With ultra-low power consumption and full RoHS and WEEE compliance, the P690 Series products help promote sustainable design and environmental conservation.

matrox®
Graphics for Professionals

Different options for different needs. Find which card is right for you.

	P690 PCIe x16	P690 PCI	P690 LP PCIe x16	P690 LP PCIe x1	P690 Plus LP PCIe x16	P690 Plus LP PCI
Part number	P69-MDDE128F	P69-MDDP128F	P69-MDDE128LPF	P69-MDDE128LA1F	P69-MDDE256LAUF	P69-MDDP256LAUF
Card type	PCIe x16	PCI	PCIe x16	PCIe x1	PCIe x16	PCI
Graphics memory	128 MB DDR2	128 MB DDR2	128 MB DDR2	128 MB DDR2	256 MB DDR2	256 MB DDR2
Form factor (card/bracket)	ATX/ATX	ATX/ATX	LP/LP&ATX	LP/ATX&LP	LP/ATX&LP	LP/ATX&LP
Card dimensions[1]	6.6" x 4.38" / 16.76 x 11.13 cm	6.6" x 4.2" / 16.76 x 10.67 cm	6.6" x 2.71" / 16.76 x 6.88 cm	6.6" x 2.71" / 16.76 x 6.88 cm	6.6" x 2.71" / 16.76 x 6.88 cm	6.6" x 2.54" / 16.76 x 6.45 cm
Connectors	DVI-I x 2	DVI-I x 2	LFH-60	LFH-60	LFH-60	LFH-60
Adapter cables	—	—	LFH-60 to 2 DVI-I	LFH-60 to 2 DVI-I	LFH-60 to 2 DVI-I	LFH-60 to 2 DVI-I
Connector adapters	2 DVI-I to HD15	2 DVI-I to HD15	2 DVI-I to HD15	2 DVI-I to HD15	2 DVI-I to HD15	2 DVI-I to HD15
Max displays per card	2	2	2	2	2 (4 via separate upgrade[2])	2 (4 via separate upgrade[2])
Max digital resolution per display	1-2 Monitors: 1920 x 1200	1-2 Monitors: 1920 x 1200	1-2 Monitors: 1920 x 1200	1-2 Monitors: 1920 x 1200	1-2 Monitors: 1920 x 1200	1-2 Monitors: 1920 x 1200
Max analog resolution per display	1-2 Monitors: 2048 x 1536	1-2 Monitors: 2048 x 1536	1-2 Monitors: 2048 x 1536	1-2 Monitors: 2048 x 1536	1-2 Monitors: 2048 x 1536 3-4 Monitors: 1920 X 1200[3]	1-2 Monitors: 2048 x 1536 3-4 Monitors: 1920 X 1200[3]
Independent desktop mode	Yes	Yes	Yes	Yes	Yes[3]	Yes[3]
Stretched desktop mode	Yes	Yes	Yes	Yes	Yes	Yes
Passive cooling (fanless)	Yes	Yes	Yes	Yes	Yes	Yes
Power consumption	10W	10.7W	10W	9.5W	11.8W	10.5W
Unified driver package	Yes	Yes	Yes	Yes	Yes	Yes
PowerDesk software	Yes	Yes	Yes	Yes	Yes	Yes
EMC certifications	Class B - ACMA, CE,FCC,ICES-003, VCCI, CSA	Class B - ACMA, CE,FCC,ICES-003, VCCI, CSA	Class A - ACMA, CE,FCC,ICES-003, VCCI, CSA	Class A - ACMA, CE,FCC,ICES-003, VCCI, CSA	Class A - ACMA, CE,FCC,ICES-003, VCCI, CSA	Class A - ACMA, CE,FCC,ICES-003, VCCI, CSA
Cable upgrades	—	—	—	—	Quad analog output cable (Part # CAB-L60-4XAF)	Quad analog output cable (Part # CAB-L60-4XAF)
Supported operating systems[4]	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)	Microsoft® Windows® 8.1 (64), Windows 8 (64), Windows 7 (32/64), Windows Vista® (32/64), Windows 2000, Windows XP (32/64), Windows Server® 2012 R2 (64), Windows Server 2012, Windows Server 2008 (32/64), and Windows Server 2003 (32/64)
Environmental	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant
Warranty[5]	3 years	3 years	3 years	3 years	3 years	3 years

[1] Card size = length, not including bracket and bracket connector x height, including slot connector. Card width is within specifications for a single card of the given type.
[2] Quad-analog upgradable with the use of an optional upgrade cable (Part# CAB-L60-4XAF).
[3] In Quad-display configuration, each display must be set to the same refresh rate and resolution.
[4] Please read release note for intended drivers for details.
[5] Please visit the Matrox web site for full product Limited Warranty information.

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