

matrox ATC Display Controllers

Specialty Graphics



PCI



PCIe

Designed for air traffic control (ATC) and air traffic management (ATM)

Leveraging over 27 years of experience in developing cutting-edge technology for the graphics, imaging and broadcast video markets, Matrox is delivering state-of-the-art display controllers designed specifically for air traffic control (ATC) and air traffic management (ATM). Matrox ATC display controllers offer support for all available 2k x 2k displays together with an auxiliary display from a single device. Adaptable to both legacy and modern ATC platforms, Matrox ATC display controllers can drive both analog and digital displays, facilitating platform transitions in mission critical environments. Moreover, Matrox's ability to offer long product life-cycles and extended product support ensures future-proofing of investment in both software and hardware.

Unmatched Support

A vertically integrated company, Matrox controls all aspects of design and manufacturing of its products including graphics chips, PCBs, sales, support, manufacturing, packaging, hubbing, and distribution. Consequently, Matrox is able to ensure long life-cycles for its products with a service and manufacturing organization that is set up for 8+ years of product support. With offices throughout the world, Matrox can provide dedicated service and support teams to meet the needs of a worldwide customer base.

Main Features

- State-of-the-art 512-bit graphics chip
- Support for 2048 x 2048 resolution (analog and digital)
- Support for 2560 x 1600 resolution (dual-link DVI)
- 50 Ohm BNC, dual-link DVI
- Compatible with all 2K x 2K display currently available on the market
- Compatible with 30-inch 2560 x 1600 Dual-link DVI monitors
- Support for auxiliary display up to 1920 x 1200 Landscape or portrait (analog only)
- 15+ years MTBF



Technical Specifications

ATC – PCI-X board hardware included:

Bus interface	PCI 64-bit / 66 MHz (backward compatible with PCI 32-bit/33MHz)
Dimensions	Short length, full height, single PCI 32-bit, 64-bit, or PCI-X card slot. (7.5"x4.2"). Will operate in 3.3- or 5-Volt slots
Weight	Approximately 0.3 kg
Frame buffer memory	256 MB of high speed memory
Signalling	3.3v or 5v automatic
Display configurations	Output 1: - DVI-I connector - Dual-Link DVI, Single-Link DVI or RGB 50 Ohm - Resolutions: 2048x2048 and 2560 x 1600 Output 2: - DVI-I connector - Analog RGB 75 Ohm (DVI to HD15 adaptor included) - Max. resolution: 1920 x 1200 - Pivot functionality
Pixel Modes	8-bit PseudoColor (256 colors) 16-bit color (64K colors) 24-bit color (16M colors) 24-bit color + 8 bit PseudoColor overlay
MTBF	>125,000 hours (25 degrees Celsius ground benign) Active cooling with fail-safe fan controller
OS Support	Linux®, Solaris X86, Microsoft® Windows® 2000 , Windows XP, HP-UX 11, Sparc Solaris (Please contact Matrox for other OS support)
VGA Support	Auxiliary output only
Environmental	Operating temperature from 0 to 55 degrees Celsius
Atmospheric	Operating pressure from about 650 to 1013 hPa
Humidity	Operating humidity from 20% to 80%, non-condensing

ATC – PCI-express board hardware included:

Bus interface	PCIe X16
Dimensions	PCIe ATX short form factor (6.425" x 4.38")
Weight	Approximately 0.165 Kg
Frame buffer memory	128 MB of high speed memory
Signalling	PCIe Version 1.1
Display configurations	Output 1: - DVI-I connector - Dual-Link DVI, Single-Link DVI or RGB 50 Ohm - Resolutions: 2048x2048 and 2560 x 1600 - Pivot functionality Output 2: - DVI-I connector - Analog RGB 75 Ohm (DVI to HD15 adaptor included) - Max. resolution: 1920 x 1200
Pixel Modes	8-bit PseudoColor (256 colors) 16-bit color (64K colors) 24-bit color (16M colors) 24-bit color + 8 bit PseudoColor overlay
MTBF	>200,000 hours (25 degrees Celsius ground benign) Active cooling with fail-safe fan controller
OS Support	Linux® (Please contact Matrox for Other OS support)
VGA Support	Auxiliary output only
Environmental	Operating temperature from 0 to 55 degrees Celsius
Atmospheric	Operating pressure from about 650 to 1013 hPa
Humidity	Operating humidity from 20% to 80%, non-condensing

Learn More or Purchase

Matrox Graphics offers a wide range of specialized graphics solutions for professional markets such as finance, digital media, medical imaging, and enterprise computing. For more information about the entire Matrox Graphics product line, visit www.matrox.com/graphics.

To locate the local office nearest to you, visit www.matrox.com/graphics/contact. For product support, contact your Matrox representative or visit www.matrox.com/graphics/support.

North America: 800-361-1408
International: 514-822-6366
Email: graphics@matrox.com

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