

GX7944



3U CORE 2 DUO 2.16 GHZ PROCESSOR CPCI EXPRESS CONTROLLER

- 3U embedded cPCI Express controller for use with GX7600 Series PXI Express chassis
- Intel Core 2 Duo, 2.16 GHz
- 2 GB RAM
- On-board Gigabit Ethernet
- USB ports
- NOT RECOMMENDED FOR NEW DESIGNS - SEE DETAILS BELOW



*****PRODUCT AVAILABILITY*****

NOT RECOMMENDED FOR NEW DESIGNS.

Please contact the factory for availability and alternate product offerings.

Please review the GX7945 for the latest product alternatives.

FEATURES

The GX7944 is a single-slot embedded cPCI Express 3U controller for use with Marvin Test Solution's GX7600 PXI Express chassis. When combined with the embedded storage peripherals of the GX7600 Series chassis, it is the ideal solution for a compact, high performance, and integrated PXI Express chassis / controller configuration.

CONFIGURATION

The GX7944 controller supports multiple peripherals and I/O interfaces through either the controller's front panel or the rear I/O panel of the GX7600 Series. Connection to the DVD-RW drive and hard drive is via the controller's internal I/O interface. The controller's front panel I/O is provided with a factory default configuration and is fully functional in any PXI Express or cPCI Express chassis.

The GX7944 embedded system controller adheres to the PXI Express and cPCI Express specifications and is PICMG EXP.0 R1.0 compliant.

OPERATING SYSTEM

The GX7944 series controller ships standard with Windows 7 Pro operating system. Please note that Windows XP Pro operating system is also available for this series, and should be specified when ordering.

APPLICATIONS

- Automatic Test Equipment (ATE)
- Data Acquisition
- Process Control
- Production Test
- Scientific Applications
- Research and Development
- Industrial Systems
- Portable Systems
- GX7600 PXI Chassis



GX7944



SPECIFICATIONS

| PROCESSOR AND MEMORY | |
|-----------------------------------|---|
| CPU | Intel Core® 2 Duo Processor <ul style="list-style-type: none">• 2.6 GHz processor core frequency• 4 MB L2 cache• 667 MHz FSB |
| Main Memory | 2 GB SDRAM |
| EXTERNAL INTERFACES | |
| CompactPCI Express Bus Interface | Compliant with CompactPCI specification PICMG EXP.0 R1.0 4 x1 cPCI Express Lanes connected via XJ2 and XJ3 backplane connectors |
| PERIPHERAL I/O PORTS | |
| USB Interface | Four USB 2.0 ports: <ul style="list-style-type: none">• Two USB type connectors on the front panel• Two rear I/O interface connections |
| Ethernet Interface | (2) 10/100/1000 MB/s Gigabit Ethernet ports (front panel & rear panel) |
| INTERNAL INTERFACES | |
| VGA Interface | Intel 945GM VGA graphics and memory controller: <ul style="list-style-type: none">• 200 / 250 MHz, 256 bits graphics core• 15-pin D-sub VGA CRT-display connector with analog video signals on front panel |
| Compact Flash | CompactFlash type 1 socket (true IDE mode) |
| MONITOR AND CONTROL | |
| Watchdog | Software configurable Watchdog timer |
| System Monitor | Thermal monitoring of processor and board temperature |
| ENVIRONMENTAL | |
| Mechanical | 3U, 4HP, CompactPCI/PXI compliant form factor |
| Operating Temperature | 0 °C to +60 °C |
| Storage Temperature | -40 °C to +85 °C |
| Relative Humidity (operating) | 5% to 80% RH, non-condensing Dew point -5°C - 20°C |
| Relative Humidity (non-operating) | 5% to 95% RH, non-condensing 30°C max |
| Altitude (operating) | Up to 2000 M |
| CE Compliance | EN61010-1 EN61326 |

| PHYSICAL | | | |
|--------------------------------|-----------------|-------|------------------------------------|
| Mechanical | 3U cPCI Express | | |
| Dimensions | 100 mm x 160 mm | | |
| Weight | 427 g | | |
| GX7944 PERIPHERAL INTERFACES | | | |
| Interface | Front | Rear* | Comments |
| USB | 2 | 2 | |
| Gigabit Ethernet (1000 Base T) | 1 | 1 | |
| VGA | 1 | | |
| SATA | | | 1 (used internally by the chassis) |

* Rear panel connections are located on the GX7600 chassis
Note: Specifications are subject to change without notice

ORDERING INFORMATION

| | |
|-----------------------|---|
| GX7944-2162048 | 3U PXIe Single-Slot controller, 2.16GHz Core2Duo, 2GB RAM, 1GB/S System Bandwidth |
|-----------------------|---|

Note: The GX7944 is supplied by a 3rd party and resold by Marvin Test Solutions.