

# 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 11 Pro operating system.

### APPLICATIONS

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

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## SPECIFICATIONS

PROCESSOR AND MEMORY	
CPU	Intel Core® 2 Duo Processor <ul style="list-style-type: none"><li>• 2.6 GHz processor core frequency</li><li>• 4 MB L2 cache</li><li>• 667 MHz FSB</li></ul>
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"><li>• Two USB type connectors on the front panel</li><li>• Two rear I/O interface connections</li></ul>
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"><li>• 200 / 250 MHz, 256 bits graphics core</li><li>• 15-pin D-sub VGA CRT-display connector with analog video signals on front panel</li></ul>
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

<b>GX7944-2162048</b>	3U PXIe Single-Slot controller, 2.16GHz Core2Duo, 2GB RAM, 1GB/S System Bandwidth
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Note: The GX7944 is supplied by a 3rd party and resold by Marvin Test Solutions.