

GX7944

3U CORE™ 2 DUO CPU

- 3U cPCI / PXI controller for use with GX7600 Series PXI Express chassis
- Intel Core™ 2 Duo T7400 2.16 GHz Processor
- 2 GB RAM
- Intel 945GM Express chip set
- On-board Gigabit Ethernet
- USB 2.0 ports
- 4 x1 PCI Express bus configuration
- PICMG 2.0 R3.0 compliant



FEATURES

The GX7944 is a single-slot PXI Express, 3U controller for use with Geotest's GX7600 PXI Express chassis. The GX7944 offers multiple I/O connections including USB, Ethernet, and VGA. 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 supports VGA, two USB 2.0 ports, and two Gigabit Ethernet ports. Additional USB connections are available on the rear panel of the GX7600's chassis via the controller's rear I/O interface.

APPLICATIONS

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

GX7944

SPECIFICATIONS

PROCESSOR AND MEMORY	
CPU	Intel Core™ 2 Duo Processor •2.16 GHz processor core frequency •4 MB L2 cache •667 MHz FSB
MEMORY	
MAIN MEMORY	•2 GB SDRAM
EXTERNAL INTERFACES	
CompactPCI EXPRESS BUS INTERFACE	Compliant with CompactPCI specification PICMG EXP0 R1.0 4 x1 cPCI Express Lanes connected via XJ2 and XJ3 back-plane connectors
PERIPHERAL I/O PORTS	
USB INTERFACE	Four USB 2.0 ports : •Two USB type connectors on the front panel •Two rear I/O interface connections
ETHERNET INTERFACE	One 10/100/1000 MB/s Ethernet port (rear) One 10/100/1000 MB/s Ethernet port (front)
INTERNAL INTERFACES	
VGA INTERFACE	Intel 945GM VGA graphics and memory controller: •200 / 250 MHz, 256 bit 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
HUMIDITY	95%, non-condensing
PHYSICAL	
MECHANICAL	3U cPCI Express
DIMENSIONS	100mm x 160 mm
WEIGHT	427 g

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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 located on the GX7600 chassis

Note: Specifications are subject to change without notice.

ORDERING INFORMATION

GX7944 PXI EMBEDDED CONTROLLER	
GX7944-2162048	PXI Express controller for GX7600 Series 2.16 GHz, Core™ 2 Duo , 2 GB RAM