

# GX7934

## 3U CORE™ 2 DUO PXI CONTROLLER

- 3U embedded PXI controller for use with GX7300 Series PXI chassis
- Intel Core 2 Duo 1.5 GHz processor
- 1 GB RAM standard, expandable to 4 GB RAM
- On-board high performance Intel 945GM graphics accelerator
- On-board Gigabit Ethernet
- USB and COM ports



## FEATURES

The GX7934 is a single-slot embedded PXI 3U controller for use with Geotest's GX7300 PXI chassis. The GX7934 features a 1.5 GHz Core 2 Duo processor and is available with up to 4 GB of RAM. When combined with the embedded storage peripherals of the GX7300 Series chassis, it is the ideal solution for an integrated, high performance PXI chassis / controller configuration.

## CONFIGURATION

The GX7934 controller supports multiple peripherals and I/O interfaces through either the PXI controller's front panel or the rear I/O panel of the GX7300 Series chassis. 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 or cPCI chassis.

The GX7934 embedded system controller adheres to the PXI and cPCI specifications and is PICMG 2.0 Rev. 3.0 compliant.

## APPLICATIONS

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

# GX7934

## SPECIFICATIONS

PROCESSOR AND MEMORY	
<b>CPU</b>	Intel Core 2 Duo L7400, 1.5 GHz Processor •4MB L2 cache •667 MHz FSB
<b>MEMORY</b>	
<b>MAIN MEMORY</b>	•Up to 2 GB soldered DDR SDRAM memory • 2 GB SODIMM-socket memory (optional)
<b>OTHER MEMORY</b>	• 1 MB firmware hub for BIOS • 8 Kbyte EEROM for CMOS data storage (no battery operation)
EXTERNAL INTERFACES	
<b>CompactPCI BUS INTERFACE</b>	Compliant with CompactPCI specification PICMG 2.0 R3.0 •System master operation •32-bit /33 MHz master interface •5V VI/O, 7 Req/Gnt & clock lines
PERIPHERAL I/O PORTS	
<b>COM1 AND COM2</b>	•TTL signaling •Rear I/O only
<b>USB INTERFACE</b>	Three USB 2.0 ports •Two USB type connectors on the front panel •One rear I/O interface
<b>ETHERNET INTERFACE</b>	• 2x GbE ports, front or rear ( software selectable)
INTERNAL INTERFACES	
<b>VGA INTERFACE</b>	•Intel 945GM 3D graphics accelerator chip set for enhanced graphics performance: •Supports resolutions of up to 2048x1536, 16M colors, 75 Hz refresh rate •15-pin D-sub VGA CRT-display connector with analog video signals
<b>COMPACT FLASH</b>	•CompactFlash type I and II socket
MONITOR AND CONTROL	
<b>WATCHDOG</b>	Software configurable Watchdog generates IRQ, NMI, or hardware reset. 125 ms to 256 s, programmable in 12 steps.
<b>SYSTEM MONITOR</b>	Hardware monitor supervision of: •System power voltages: +12 V, -12 V, +5 V, +3.3 V, and VCORE, thermal control, fan sense (external input)

ENVIRONMENTAL			
<b>MECHANICAL</b>	3U, 4HP, CompactPCI/PXI compliant form factor		
<b>OPERATING TEMPERATURE</b>	0° C to 60° C		
<b>STORAGE TEMPERATURE</b>	-55° C to 85° C		
<b>HUMIDITY</b>	93% RH at 40° C, non-condensing		
<b>ALTITUDE</b>	50,000 ft. (15,240 m)		
PHYSICAL			
<b>MECHANICAL</b>	3U PXI		
<b>DIMENSIONS</b>	100mm x 160 mm		
<b>WEIGHT</b>	320 g		
<b>POWER CONSUMPTION</b>	1.5 GHz with 2GB of RAM: 25 watts, typical		
GX7930 SERIES			
INTERFACE	FRONT	REAR*	COMMENTS
Serial (RS-232)		2	
USB	2	1	—
Gigabit Ethernet (1000 Base T)	2	1	Selectable – Front or Rear I/O
VGA	1	—	—

\*Rear panel connections located on the GX7300 chassis

Note: Specifications are subject to change without notice.

## ORDERING INFORMATION

PXI EMBEDDED CONTROLLERS*	
<b>GX7934-151024</b>	PXI controller for GX7300 Series 1.5 GHz, Core Duo, 1 GB RAM
<b>GX7934-152048</b>	PXI controller for GX7300 Series 1.5 GHz, Core Duo, 2 GB RAM

\*Call Geotest for additional configurations for applications requiring different speed