

# GX7937

## 3U I7 CORE 2.3 GHZ cPCI CONTROLLER

- 3U embedded cPCI controller for use with GX7300 Series PXI chassis
- Intel i7 Quad Core 2.3 GHz processor
- On-board Gigabit Ethernet
- (2) USB ports on front panel



## FEATURES

The GX7937 is a single-slot embedded cPCI 3U controller for use with Marvin Test Solutions' GX7300 PXI chassis. The GX7937 features a 2.3 GHz i7 Quad Core processor. 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 GX7937 controller supports multiple peripherals and I/O interfaces through either the 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 GX7937 embedded system controller is compliant with the CompactPCI Core Specification PICMG 2.0 Rev. 3.0 and is compatible with the PXI-1 Rev. 2.2 specification.

## APPLICATIONS

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

# GX7937

## SPECIFICATIONS

PROCESSOR AND MEMORY	
<b>CPU</b>	Intel® Core® i7-3615QE, Quad Core 2.3 GHz Processor 6 MB cache 1066 / 1333 / 1600 MHz memory bus
<b>Main Memory</b>	4 GB soldered DDR3 DRAM memory
<b>Other Memory</b>	64 Mbits of boot Flash 2 kbits EEROM for factory settings
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 V(I/O): 3.3 V (+5 V tolerant)
Peripheral I/O Ports	
<b>USB Interface</b>	Two USB 2.0 ports via Series A connectors on the front panel One USB 2.0 port on rear panel of chassis
<b>Ethernet Interface</b>	Two 10/100/1000 MB/s Ethernet interface ports on the front panel One 10/100/1000 MB/s Ethernet interface port on rear panel of the chassis
GRAPHICS INTERFACE	
<b>VGA Interface</b>	Maximum resolution: 2048 x 1536 pixels 15-pin D-sub VGA connector on front panel
MASS STORAGE	
<b>CompactFlash</b>	Connected via USB
<b>MicroSD Card</b>	Connected via USB
<b>Serial ATA (SATA)</b>	Accessible via rear panel connection on the chassis (option) Transfer rates of 3 or 6 Gb/s, RAID level 0/1/5/10 support
SUPPLY VOLTAGE / POWER CONSUMPTION	
<b>+5 V</b>	9.8 A (typ)
<b>+3.3 V</b>	1.4 A
<b>+12 V</b>	10 mA

ENVIRONMENTAL AND MECHANICAL	
<b>Dimensions</b>	3U, 4HP, CompactPCI/PXI compliant form factor
<b>Weight</b>	430 g
<b>Operating Temperature</b>	0 °C to +60 °C
<b>Storage Temperature</b>	-40 °C to +85 °C
<b>Humidity (Operating &amp; Storage)</b>	95% RH max, non-condensing
<b>Shock</b>	50 m/s <sup>2</sup> , 30 ms
<b>Vibration (Sinusoidal)</b>	7.9 m/s <sup>2</sup> 5 to 150 Hz

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

<b>GX7937-234096</b>	3U Single Slot Embedded Controller for GX73xx chassis, 2.3 GHz i7 core, 4 GB of RAM
OPTION	
<b>GX7900-W7</b>	Upgrade any GX79xx from Windows XP to Windows 7 Operating Systems (32-bit)

Note: The GX7937 is supplied by a 3rd party and resold by Marvin Test Solutions.