PXI-3800 Series

3U PXI Intel® Pentium® M System Controllers with VGA/GbE/CF



Introduction

The ADLINK PXI-3800 series system controller complies with PXI specifications Rev. 2.2 and features up to 1.8 GHz Pentium® M CPU support, hot swappable CompactFlash card, USB 2.0 ports, and Gigabit Ethernet. By using an Intel® Embedded Pentium® M CPU and Intel® 855GME chipset, the PXI-3800 provides both long life and excellent driver support to meet the majority of industrial applications. In addition to its rugged, industrial package, the PXI-3800's extraordinary reliability, high computing performance, and low power consumption make it ideal for test and measurement applications in harsh environments.

Notice:

These PXI™ controllers implement rear I/O. PXI™ controllers with rear I/O are designed to operate with a matching rear transition module which provides internal or external chassis I/O.

Warning:

If these PXI™ controllers are used with a chassis that contains a rear transition module that does not match the controller, the rear I/O functionality may not operate and may cause damage to the PXI™ controller or the rear transition module.

Features

- **PXI specifications Rev. 2.2 compliant**
- **Intel® Pentium® M processor, FSB 400 MHz, CPU frequency up to 1.8 GHz**
- **Two 200-pin DDR SO-DIMM sockets supporting up to 2 GB RAM**
- **One 44-pin EIDE (primary IDE) with build-in 2.5 low-profile HDD (40 GB, min.)**
- **Two CompactFlash interfaces for HDD and FDD replacement; CF2 supports hot swappable CF card functionality**
- **I/O interface**
  - **One 10/100/1000 Mb Ethernet port**
  - **Two USB 2.0 Ports**
  - **Two RS-232/422/485 ports**
  - **One parallel port**
  - **VGA output supporting 1280 x 1024 resolution**
  - **One AC97 stereo audio output**
  - **Trigger I/O for advanced PXI trigger functions**
- **Programmable watchdog timer**

Ordering Information

- **PXI-3800/PM18+**
  3U PXI Pentium® M 1.8 GHz System Controller with 2 GB Memory & 80 GB HDD
- **PXI-3800/PM18**
  3U PXI Pentium® M 1.8 GHz System Controller with 512 MB Memory & 40 GB HDD
- **PXI-3800**
  3U PXI Pentium® M 1.6 GHz System Controller with 512 MB Memory & 40 GB HDD
- **PXI-3800/CM13**
  3U PXI Celeron® M 1.3 GHz System Controller with 512 MB Memory & 40 GB HDD

Specifications

Model Name	PXI-3800/CM13	PXI-3800	PXI-3800/PM18	PXI-3800/PM18+
Core Features				
CPU	Intel® Celeron® M 320 1.3 GHz	Intel® Pentium® M 747 1.6 GHz	Intel® Pentium® M 745 1.8 GHz	Intel® Pentium® M 745 1.8 GHz
FSB	400 MHz			
Chipset	Intel® 855 GME Graphic Memory Control HUB			
	Intel® 6300ESB I/O Controller Hub			
Memory	512 MB DDR RAM (Two 200-pin SO-DIMM sockets support up to 2 GB memory)			2GB DDR RAM
Display				
CRT	Analog CRT route to VGA connector on the faceplate up to 1280 x 1024 resolution			
LVDS (For rear I/O only)	Single channel LVDS via DVO to LVDS controller up to 1280x1024 resolution			
Interface	One analog VGA DB-15 connector on the faceplate			
I/O Connectivity				
Hard Drive	40 GB IDE hard drive, 5400 RPM			80 GB IDE hard drive, 5400 RPM
IDE port	One 44-pin ATA-33 EIDE interface for external IDE device			
Ethernet	On board Intel® 82545EM Gigabit Ethernet controller One RJ-45 connector with speed/link/active LED on the faceplate			
USB	Two USB 2.0 ports on the faceplate			
Serial Port	Two 16C550 UART compatible COM ports on the faceplate COM1 is RS-232/422/485 jumper selectable			
LPT port	One high-speed bi-directional SPP/EPP/ECP parallel port			
PS2 Keyboard/Mouse	One PS2 KB/MS connector on the faceplate			
Audio	AC97 audio output on faceplate			
Trigger I/O	SMB connector on the faceplate to route an external trigger signal to/from PXI™ trigger bus			
CompactFlash Socket	Two CompactFlash type II sockets. CF1 is based on internal primary IDE interface. CF2 is hot-swappable interface on the faceplate			
Mechanical and Environmental				
Dimensions	3U PXI™ module 60.5 mm x 128.7 mm x 213.2 mm			
Slot Requirements	1 system slot plus 2 controller expansion slots			
Weight	0.9 kg			
Operating Temp.	0 to 55°C			
Storage Temp.	-20 to 80°C			
Relative Humidity	5 to 95%, non-condensing			
Shock	30 G, half-sine, 11 ms pulse duration			
Vibration	Operating: 5 to 500 Hz, 0.5 G_{RMS}, 3 axes			
	Non-operating: 5 to 500 Hz, 2.46 G_{RMS}, 3 axes			
Emissions Compliance	EN 55022 FCC Class A			
CE Compliance	Immunity: EN 55024			

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