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A XycomVME Company

XSRV-10 1U Rugged Server



Features

- 1U 19" Rack Mounted Rugged Enclosure
- 6-40x40x28 isolation mounted fans
- 160W power supply
- 1 internal drive bay
- 1 front access drive bay
- Custom cabling increases airflow through unit

- Long Term Supported Product
- 5+4 program
- Configuration management
- Revision Management

- Integrated Third Party Products Support
- Communications
- Industrial I/O
- Military busses
- Customer specific customization

- Thermal Management Module Options
- Remote temperature monitoring
- Remote fan monitoring
- Remote power supply monitoring

Overview

With an environmental operating window of -25C to +70C, shock spec of 30G at 11MS and 10-500Hz at 2.5G for Vibration the XSRV – ER10 Extended Temperature / Rugged Server has been designed for 24x7 high performance computing in an environment where “commercial class” servers would not function.

The XSRV – ERxx features 2.16GHz Core™2 Duo processor with 2, 4 or 8GB of ECC Memory, quad USB, VGA, keyboard, mouse and two, 1GB Ethernet Ports. Storage options include: rugged EIDE 24x7 hard drives, solid state drives or removable hard drives. Other types of removable media are also available such as CD, DVD/RW or compact flash. Use the optional XCPC-9090 Rear Transition Module to provide common connectors for rear I/O ports.

The XSRV comes with our 5+4 year guarantee that you will be able to buy this system for at least 5 to 9 years. This means no redesigning or retesting of the system because of EOL issues.

By utilizing the open architecture bus structure of CompactPCI the processor board is easily upgrade. The XSRV also includes a CompactPCI expansion slot and a PMC expansion slot for the addition of a CPU, Ethernet, T3, RAID, 1553, 429 and many other interface types.

Hardware Specifications

Dimensions (HxWxD)

1.75" x 17.12" x 12"

CPU

-2.16GHz Core™ 2 Duo T7400 processor

Memory (Dual Channel memory)

-512MB, 1GB, 2GB, 4GB and 8GB memory sizes available using two 200-pin, 400MHz ECC DDR2 Memory

Graphics Interface

- Silicon Motion SM722 2D/3D graphics Controller
- Resolutions up to 1280X1024 at up to 16M colors
- Analog video via front or rear panel

Ethernet

- Using Intel® 82571EB, dual 10/100/1000Mbps ports via the RJ-45 front/rear panel

Stereo Audio

- AD1981B AC97 audio CODEC
- Line level stereo input and output via rear panel

Serial Ports

- One RS-232/422/485 (COM1) port via front panel
- Two RS-232 (COM2 and COM3) port via rear panel

PMC/XMC Site

- One PMC site with I/O via front panel or rear cabling
- 32/64-bit, 33/66MHz PCI-X operation
- Alternatively one XMC slot, XMC
- On board PMC/XMC site is 3.3V interface levels

USB 2.0 (Universal Serial Bus)

- Two USB 2.0 port via front panel
- Two USB 2.0 ports via rear panel

Keyboard and Mouse port

- Via front panel shared PS/2 or rear panel

Higher Resolution PC-Compatible Real Time Clock

Parallel Port interface (ECP, EPP and IEEE1284)

Optional Items

XCPC-9090 Rear Transition Module
XCPC-912 On-board Compact Flash Carrier
XCPC-913 On-board 1.8" Hard Drive Kit
XCPC-9079 DVD/RW with Hard Drive
XSRV-Slides; Rack Slide Set for Mounting in Chassis.

Options

Processor board (option C)

2.16GHz Intel® Core™ 2 Duo L7400 processor
4G of 400MHz SDRAM
VGA, keyboard, mouse, stereo input and output
2 – EIDE Ultra 100
2 - Serial ATA 150
Dual 10/100/1000 baseT Ethernet ports
2 - USB 2.0, Parallel Port
2 – RS-232, 1 – RS 232/422/485

Peripheral options:

40, 60, 80GB Rugged hard drive
32 and 60GB Solid State Drive
Compact Flash carrier
40 and 80GB removable hard drive
DVD R/W, CD R/W

Operating system supported

Linux (Red Hat Enterprise 4, 2.8 kernel)
Windows XP, Vista
Solaris 10
VxWorks 6.6
QNX 6
RTX 7.1

Environmental

RoHS Compliant module

Thermal Operating 0 to 55° **

Thermal Non-Operating -40 to 85°

Thermal Operating Extended -25 to 70° **

Thermal Non-Operating Extended -40 to 85°

Humidity Operating/Non-Operating

10-95% RH, non-condensing

Shock Operating

30g Peak acceleration, 11mSec duration

Shock Non-operating

50g Peak acceleration, 11mSec duration

Vibration 5-2KHz

Operating 0.015" (0.38 mm) Peak to Peak displacement, 2.5g max. acceleration

Non-Operating 0.030" (0.76 mm) Peak to Peak displacement, 5.0g max. acceleration

Altitude

Operating Sea level to 10K feet (3Km)