

P4490 4U Rugged Server

- ▶ Extremely Rugged 4U Server
- ▶ Dual Redundant Power
- ▶ Shock Mounted Storage
- ▶ Custom Front Panel Design
- ▶ Shock and Vibration Tolerant
- ▶ Cost Effective Mil Spec Performance
- ▶ Designed For Mil 810 Requirements



Westeks P4490 Rugged 4U Server has been designed to meet the needs of a Military Specification server at COTS price level. The P4490 has been designed for Mil 810 standards for a wide range of applications and has successfully passed extensive environmental and operating tests.

The P4490 is a fully customisable design with options for special front panel design and a wide choice of storage, power supply and processor options.

A typical specification provides :

- ▶ Intel Core 2 Duo / Core 2 Quad or Dual Multi-Core Xeon Processors
- ▶ Passive Backplane with up to 6 Expansion Slots (PCI, PCI-X or PCI-Express)
- ▶ Secured Anti-Vibration Fixings for Expansion Slots
- ▶ Dual Gbit Ethernet Interface, Serial Ports and USB Ports
- ▶ Fully Shock Mounted Removable Hard Disk Drive in Stainless Steel Carrier
- ▶ Auto Ranging Dual Redundant AC Power Supply (DC Options Available)
- ▶ Full System and Environmental Alarm Monitoring
- ▶ Optional Front Access Video / Keyboard / Mouse Interfaces, Cover Protected
- ▶ Optional Rear Conversion Adapter to Mil Spec Connectors

Operating

-10 Deg C to +55 Deg C , 10 to 90% NC
Tested to 3500 metres altitude
+55 Degrees Centigrade 90% Humidity

Vibration:

1G 3 axis 5Hz– 500Hz (Hard Disk)
4G 3 axis 5Hz– 500Hz (Solid State Disk)
Shock: 30G half sine wave 16mSec / 325G 2mSec

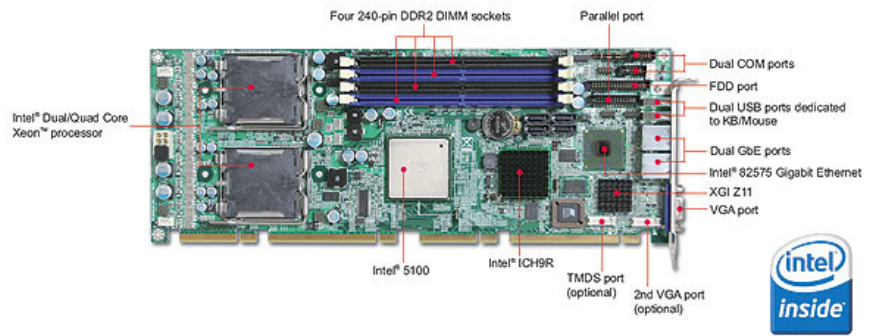
Non Operating

-40 Deg C to +70 Deg C
Altitude to 12000 metres
Humidity 5 to 95% N/C

Vibration: 5G 5Hz to 500Hz
Shock: 900G 2mSec

Server Engine

- ▶ PICMG 1.0 or 1.3 Intel Chipset SBC
- ▶ SKT 775 or Dual SKT 771
- ▶ Up to 1333MHz FSB Processor(s)
- ▶ Up to 32GB DDR Memory
- ▶ SATA II Disk Interfaces
- ▶ Two Serial Ports (RS232/RS485)
- ▶ Dual 10/100/1000 Ethernet Ports
- ▶ Dual RJ45 with LED Indicators
- ▶ Up to 6 x USB 2.0 Ports
- ▶ Integrated Graphics
- ▶ Display Resolution to 2048x1536
- ▶ USB Mouse and Keyboard Inputs
- ▶ Audio Support Option



Intel® Core 2 Duo, Core 2 Quad and Quad Core Xeon SBC Options Available. Please contact Westek to discuss your needs.

System Monitoring

- ▶ Integrated Processor Independent System Environmental Monitor
- ▶ Cooling Fans Speed Monitoring
- ▶ Power Supply Voltages
- ▶ Incoming and Outgoing Air Temperature
- ▶ Processor Temperature
- ▶ Processor Watchdog Timer with Auto-reboot Option
- ▶ Custom Front Panel Switch Status Sensing and User Programmable Tricolour LED Indicators
- ▶ Remote Alarm Alerting via Ethernet or via Serial Port to Local Processor

Storage

- ▶ Options for Removable 2.5" Vibration Tolerant Hard Disk or Solid State Flash Drive up to 128GB Capacity
- ▶ Special Build Options Available for Dual Hot Swap Drives / RAID 1 Mirror Support up to 2TBytes Capacity.

Physical

- ▶ Dimensions: 431(W) x 176(H) x 435(D)mm
- ▶ Weight (Net): Approximately 24Kg
- ▶ Operating Temp: -10 to +55 Degrees C
- ▶ Storage Temp -40 to +70 Degrees C
- ▶ Relative Humidity: 5-95% Non-condensing
- ▶ CE Compliance: EEC EMC & Safety
- ▶ Designed to Meet UL and FCC Requirements
- ▶ RoHS Compliant
- ▶ Operating Vibration up to 4G 3 Axis 5Hz to 500Hz with Solid State Disk Drive



Westek Technology Ltd

Unit 1 Lancaster Business Park
Bowerhill
Melksham
Wiltshire
United Kingdom
SN12 6TT

Tel: +44 (0)1225 790600
Fax: +44 (0)1225 702968
E-mail: sales@westekuk.com
Web site: www.westekuk.com

Specifications subject to change without notice

