

P4414R 4U Rugged Server

- ▶ Rugged Industrial 4U Server
- ▶ Dual Redundant Power Options
- ▶ Hot Swappable Storage Options
- ▶ Wide Operating Temperature Range
- ▶ Shock Mounted Drive Bay
- ▶ Range of Processor Options
- ▶ Standard Rear Access Connections



Westek's P4414R Rugged 4U Server is designed for use in wide operating temperature industrial environments, which may be subject to varying humidity, shock, vibration and dust. The P4414R server provides standard PC type connections and is designed to meet standard EEC CE EMC and EMI requirements rather than the more severe military EMC and environmental specifications which would require MIL-SPEC connectors.

The P4414R is a customisable server system with a wide choice of storage, power supply and processor options including support for the latest 5500 series SKT1336 Intel® Xeon processors.

The P4414R is built using Westek's proven shock and vibration build process using specially selected qualified components and may be specified with conformal coating for the internal electronics to allow reliable long term operation in high humidity conditions.

A typical specification provides :

- ▶ Intel® Embedded low power Core 2 Duo, Dual Core or Quad Core Xeon Processor(s)
- ▶ Full Size Expansion Slots with Options for PCI, PCI-X or PCI-Express
- ▶ Secured Anti-Vibration Fixings for Expansion Slots
- ▶ Gbit Ethernet Interfaces, Serial Ports and USB Ports
- ▶ Fully Shock Mounted Removable Hard Disk Drives with Hot Swap RAID Options
- ▶ Auto Ranging Dual Redundant AC Power Supply (DC Options Available)
- ▶ Lockable Front Door Access to Controls and Drive Bay Area
- ▶ Front Access Cleanable / Replaceable Dust Filter
- ▶ Up to 3 x 5.25" Device Bays to accept 5.25", 3.5", 2.5" or Custom Form Factor Devices

The chassis is constructed from tough heavy duty cold rolled electroplated steel and meets the EIA RS-310C 19" rack mount industry standard. The two 120mm 90C/FM cooling fans are electronically controlled proportional to temperature to provide cooling at high ambient temperatures and operation at low temperatures for long term reliability.

The front air filter is removable and washable and is accessed via a simple thumbscrew secured front door panel. The power and reset switch are located in the drive bay area behind a lockable front door for access protection. LED's for power and HDD activity are also provided.

Westek offers a full range of specification test and verification services to provide independent fully certified testing of tolerance to shock, vibration, operating environment, EMC emissions, and EMI compliance for custom configurations.

Server Engine

- ▶ Choice of Intel® Chipset Server Engine
- ▶ SKT 775, SKT 1336 or SKT 771
- ▶ Core 2 Duo, Dual or Quad Core Xeon
- ▶ Up to 1333MHz FSB
- ▶ Up to 8GB / 24GB DDR2 / DDR3 Memory
- ▶ SATA or SAS Disk Interface Options
- ▶ Options for Multiple RS232 Serial Ports
- ▶ Options for Multiple Ethernet Ports
- ▶ Options for Multiple USB 2.0 Ports
- ▶ Integrated Graphics or Add in High Performance Graphics Options
- ▶ Call Westek to Discuss Your Requirements



Storage

Options for up to 3 hot swap 2.5" SAS or vibration tolerant 2.5" SATA Disk Drives up to 500GBytes each, or Solid State Drives (SSD) up to 256GB capacity each. Build options are available for fixed or hot swap drives in rugged stainless steel carriers with RAID 0,1 or 5 data protection.

Environment

Actual specification depends on configuration, a typical specification is shown below.

Operating :

Temperature Range : -10 to +50 Deg C
Humidity : 10 to 95% Humidity Non-Condensing
Vibration : up to ~1G 10Hz to 500Hz
Shock: 20G / 11mSec
Altitude: -300 to +5000 metres

Non-Operating :

Storage -40 to +70 Deg C
Vibration : up to 4G 5Hz to 500Hz
Shock : 40G / 11mSec
Altitude: -300 to +12000 metres

Full independent test and certification services are available to custom specifications if required.

Physical

- ▶ Dimensions: 480(W) x 177(H) x 510(D) mm
- ▶ Weight (Net): Approximately 23Kg (depending on build options)
- ▶ CE Compliance: EEC EMC & Safety
- ▶ Designed to Meet UL and FCC Requirements
- ▶ RoHS Compliant
- ▶ Power (AC Option) Typically 250Watts, Auto-ranging 96—265V AC 50-60Hz

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Specifications subject to change without notice

