



PRODUCT BRIEF

P2496R

2U WORKSTATION/SERVER

Westek's range of rugged products are designed for use in extreme environments where a reliable, cost-effective solution is required. The P2496R is part of Westek's well established and field proven rugged computer family, and can be built to meet customer environmental and application requirements.

The P2496R provides rugged workstation or server capability with Intel® Core™ or Xeon® processors in a custom 2U 19" rack mount chassis. Its rear I/O offers a variety of interfaces including multiple USB, Ethernet, and display ports.



Specification¹

- Single Intel® Core™, Xeon® or dual Xeon® options up to 32 cores
- AC or DC power input via MIL rugged connector
- Power protection components and EMI filtering
- MIL rugged rear interface I/O
- Up to 512GB DDR4 ECC memory per system
- Up to 46TB removable storage with RAID options
- Multiple output HD graphics
- OS options including Microsoft® Windows®, VMWare, and various Linux distributions

Rugged I/O Options¹

- Power input
- Display options: VGA, HDMI, DisplayPort
- USB 2.0 and USB 3.2
- Serial RS-232/422/485
- IPMI remote management, RAID management
- Remote power on/off signal
- 1GbE copper, 10GbE copper, 10/25GbE fibre

All I/O presented on rugged MIL 38999 III series and rugged circular connectors. Interfaces can be tailored to meet application requirements, and vary depending on build options selected.

Physical Features²

- In house designed, custom built rugged steel enclosure
- Dimensions: 431 (W) x 88 (H) x 550 (D) mm excluding connectors²
- Weight: ~18kg, final weight is dependent on specific system configuration²
- RoHS and REACH compliant
- Designed to comply with customer defined standards, verification by a third party accredited test lab available³

Field Deployment Features

- IPMI & RAID remote management for fault diagnostics
- IP50 and IP53 dust and water ingress protection options
- Field replaceable fan modules (MTTR < 10 min)
- Field replaceable BIOS battery option
- Corrosion resistant powder coat finish with various colour options
- Ruggedised and conformally coated electronics for operation in harsh environments
- High performance cooling

Environmental Specifications

All specifications are dependent on build options and may vary depending on components selected. Please advise our Sales team of your specific environmental requirements to enable us to provide the right solution for your needs.

	Operating	Non-Operating
Low temperature ⁴	-20°C	-40°C
High temperature ⁴	+55°C	+71°C
Vibration ^{3 5}	2G 10Hz to 1000Hz	4G 10Hz to 1000Hz
Shock ^{3 5}	20G 11msec	40G 11msec
Altitude	Up to 5,000m	Up to 10,000m
Humidity	10-95% non-condensing	

EMC Capabilities

- UKCA/CE compliant
- Designed to meet UL & FCC requirements³
- Designed to meet aspects of MIL-STD-461³



Notations

¹Software, hardware and accessories may vary depending on configuration

²Weight and dimensions vary from configurations and optional accessories

³Designed to meet customer defined standards, verification by a national independent third party test lab available at additional cost

⁴Temperature operating range may vary depending on component selection

⁵Fixed cable management solution may be required to meet shock and vibration requirements

Customisations are at time of manufacture only

Over 30 years' experience designing and manufacturing
high quality, rugged, mission critical IT solutions for use
in extreme environments

Contact Us

To find out more about our customisable solutions and discuss your specific requirements, please contact:

Westek Technology Limited

Unit 1 Lancaster Park Industrial Estate
Bowerhill, Melksham, Wiltshire, SN12 6TT

T: +44 (0)1225 790600

E: sales@westek.co.uk

W: www.westek.co.uk

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