

PRODUCT BRIEF

P1594L

1U WORKSTATION/SERVER

Westek's range of rugged products are designed for use in extreme environments where a reliable, cost-effective solution is required. The P1594L 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 P1594L provides direct interface rugged server or workstation capability with Intel® Core™ or Xeon™ processors in a custom 1U 19" rack mount chassis. Its rear I/O offers a variety of interfaces, including multiple USB, Ethernet, and display ports.



Specification¹

- Single Intel® Core™ or Xeon® options up to 10 cores
- AC or DC power input via MIL rugged connector
- Power protection components and EMI filtering
- Direct rear interface I/O
- Up to 64GB DDR4 ECC memory per system
- Up to 23TB removable storage with RAID options
- Integrated 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 direct interface. Options to have power input on rugged MIL circular connector.

Physical Features²

- In house designed, custom built rugged aluminium enclosure
- Dimensions: 431 (W) x 44 (H) x 450 (D) mm excluding connectors²
- Weight: ~12kg, 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

- Low depth rugged chassis
- IP50 ingress protection
- 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 500Hz	4G 10Hz to 500Hz
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

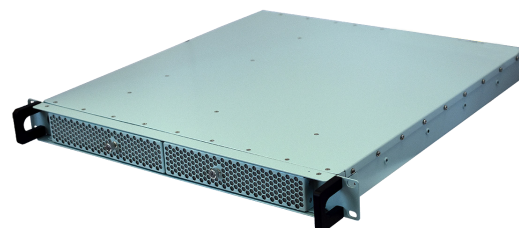
²Weight and dimensions vary from configurations and optional accessories

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:

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Model Number: P1594L

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