



PRODUCT BRIEF

P4396L

4U SERVER

Westek's range of rugged products are designed for use in extreme environments where a reliable, cost-effective solution is required. The P4396L 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 P4396L provides rugged server capability with an Intel® Xeon® processor in a custom 4U 19" rack mount chassis. Its rear I/O offers a variety of interfaces including multiple USB, Ethernet, and display ports.



Specification¹

- Single Intel® Xeon® CPU up to 16 cores
- AC, DC or dual power input via MIL rugged connectors
- Power protection components and EMI filtering
- MIL rugged rear interface I/O
- Up to 512GB DDR4 ECC memory per system
- Up to 61TB removable storage with RAID options
- Integrated 6.5" touchscreen display, holdup module and network switch
- 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 aluminium enclosure
- Dimensions: 431 (W) x 176 (H) x 401 (D) mm excluding connectors and front lip²
- Weight: ~23kg, 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 dust and water ingress protection
- 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:

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Model Number: P4396L

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