



## PRODUCT BRIEF

### D1596R

### 1U DUAL WORKSTATION

Westek's range of rugged products are designed for use in extreme environments where a reliable, cost-effective solution is required. The D1596R 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 D1596R provides rugged dual workstation capability with dual Intel® Core™ series computers in a custom 1U 19" rack mount chassis. Its rear I/O offers a variety of interfaces including multiple USB, Ethernet, and display ports.



## Specification<sup>1</sup>

- Dual Intel® Core™ CPU systems up to 10 cores each
- 12 - 34V DC power input via MIL rugged connector
- Power protection components and EMI filtering
- MIL rugged rear interface I/O
- Up to 64GB DDR4 memory per system
- Up to 46TB removable storage with RAID options
- Integrated HD graphics
- OS options including Microsoft® Windows®, VMWare, and various Linux distributions

## Rugged I/O Options<sup>1</sup>

- 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 Features<sup>2</sup>

- In house designed, custom built rugged steel enclosure
- Dimensions: 431 (W) x 44 (H) x 550 (D) mm excluding connectors<sup>2</sup>
- Weight: ~15kg, final weight is dependent on specific system configuration<sup>2</sup>
- RoHS and REACH compliant
- Designed to comply with customer defined standards, verification by a third party accredited test lab available<sup>3</sup>

## Field Deployment Features

- IP50 dust and water 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 <sup>4</sup>	-20°C	-40°C
High temperature <sup>4</sup>	+55°C	+71°C
Vibration <sup>3 5</sup>	2G 10Hz to 500Hz	4G 10Hz to 500Hz
Shock <sup>3 5</sup>	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 requirements<sup>3</sup>
- Designed to meet aspects of MIL-STD-461<sup>3</sup>



## Notations

<sup>1</sup>Software, hardware and accessories may vary depending on configuration

<sup>2</sup>Weight and dimensions vary from configurations and optional accessories

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

<sup>4</sup>Temperature operating range may vary depending on component selection

<sup>5</sup>Fixed 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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