



PRODUCT BRIEF C2296M IP65 WORKSTATION

Westek's range of rugged products are designed for use in extreme environments where a reliable, cost-effective solution is required. The C2296M 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 C2296M provides ultra rugged workstation capability with an Intel® Core™ series processor in a custom small form factor chassis. Its I/O offers a variety of interfaces including multiple USB, Ethernet, and display ports.



Specification¹

- Intel® Core™ CPU up to 10 cores
- 18 - 34V DC power input via MIL rugged connector
- Power protection components and EMI filtering
- Rugged I/O
- Up to 64GB DDR4 memory
- Up to 2TB internal storage
- Option for multiple display outputs
- IP65 ingress protection
- 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
- Network options: 1GbE copper, 10GbE copper

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

- Ultra rugged aluminium chassis with market leading cooling technology
- Dimensions: 244 (W) x 125 (H) x 320 (D) mm excluding connectors²
- Weight: ~13kg, 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

- Ultra rugged, milled aluminium chassis
- IPMI remote management for fault diagnostics
- IP65 dust and water ingress protection
- Rugged connectors with dust caps to prevent ingress when not in use
- Flange mounting points for installation in any orientation
- Additional cooling module may be required depending on configuration

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 2000Hz	4G 10Hz to 2000Hz
Shock ^{3 5}	20G 11msec	40G 11msec
Altitude	Up to 5,000m	Up to 10,000m
Humidity	IP65 sealed	

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



Additional cooling module may be required depending on configuration

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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Model Number: C2296M

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