



PART NUMBER: 3U-MEZZ-SSD-M12GIG

- Mixed function mezzanine side card for CompactPCI® serial CPU boards
- Provides gigabit Ethernet front panel I/O (4 x M12-X)
- Provides mass storage capability (M.2 NVMe)
- 8HP assembly together with CPU card
- Proprietary PCB dimensions for optimized CPU card processor heat sink

SPECIFICATION

Front Panel I/O	<ul style="list-style-type: none"> • 4 x M12 X-coded front panel GbE receptacles, rail approved, Cat6A, IEC 61076-2-109 • 1000BASE-T, 100BASE-TX, 10BASE-T compliant data transfer rate front ports • Future proof investment into cabling infrastructure - up to 10Gbps with M12 Cat6A • M12 X-coded to RJ45 connector Cat6A cable assemblies available from several suppliers
On-Board Mass Storage Options	<ul style="list-style-type: none"> • M.2 (formerly known as NGFF) socket for an NVMe type SSD module up to 2280 size • PCI Express® Gen3 x4 interface (M-key socket) • Socket height 4.2H (double sided module allowed) • Capacity up to 2TB as of current • Suitable for operating system installation (boot device)
Networking	<ul style="list-style-type: none"> • Four individual networking interface controllers (NIC), based on PCI Express® • 1000BASE-T, 100BASE-TX, 10BASE-T connections • TIntel® I210-IT -40°C to +85°C operating temperature GbE controllers w. integrated PHY • IPv4/IPv6 checksum offload, 9.5KB Jumbo Frame support, EEE Energy Efficient Ethernet • IEEE 802.1Qav Audio-Video-Bridging (AVB) enhancements for time-sensitive streams (TSN) • IEEE 1588 and 802.1AS packets time stamping for high-precision time synchronization • All GbE ports wired via M12 X-coded front panel connectors
Applications	<ul style="list-style-type: none"> • Industrial networks - IoT - TSN • Rugged environments • Router and gateway • Data acquisition • Edge computing • Railway usage via front panel M12 cabling • Transportation vehicles, construction and harvesting machinery
Regulation & Environmental	<ul style="list-style-type: none"> • Designed & manufactured in Germany • ISO 9001 certified quality management • Custom specific development on request • Long term availability • Coating, sealing, underfilling on request • RoHS compliant 2002/95/EC • Operating temperature -40°C to +85°C (industrial temperature range) • Storage temperature: -40°C to +85°C, max. gradient 5°C/min • Humidity 5% ... 95% RH non condensing • Altitude -300m ... +3000m • Shock 15g 0.33ms, 6g 6ms • Vibration 1g 5-2000Hz • EC Regulations EN55022, EN55024, EN60950-1 (UL60950-1/IEC60950-1) • MTBF 48.9 years

The Power to Outperform

Would you like to find out more? Be sure to speak to our on-stand team or contact us via the details here and we would be happy to help.

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