HIPER Global

CompactPCI® Mezzanine Card
PCIE M.2 SSD

PART NUMBER: 3U-MEZZ-M2SSD

- Mixed function mezzanine side card for CompactPCI® serial CPU boards
- Based on new mezzanine connectors HSE1/HSE2
- Provides additional front panel I/O and dual M.2 NVMe SSD
- 8HP assembly together with CPU card
- 12HP assembly in total with CPU card and C32-FIO mezzanine

SPECIFICATION

Front Panel I/O	• Variety of front panel I/O options:
	  • USB 3.1 Gen1 xHCI SuperSpeed F/P Type-A connector
	  • DisplayPort F/P connector (standard type, latched), 3rd graphics output
	  • 2 x RS-232 male D-Sub 9-pin (COM port) F/P connectors
	  • Option C32-FIO legacy front panel I/O (2 x RS-232, 1 x USB2 Type-A)
	• Integrated 8HP front panel for CPU card and SCZ-NVM (12HP when C32-FIO third floor mezzanine is installed in addition)

On-Board Mass Storage Options	• 1 x M.2 connector (formerly known as NGFF), M-key, suitable for NVMe (PCIe Gen3 x4) SSD modules, up to 22110 size • 1 x M.2 connector, M-key, suitable for standard NVMe (PCIe Gen3 x2) SSD and special function modules e.g. Intel® Optane™, or EKF M01-NVSRAM, up to 22110 size
UART	• Diodes/Pericom PI7C9X7954 PCI Express® bridge to quad port UART (Universal Asynchronous Receiver Transmitter), 16C550-type compatible, up to 15Mbps • Two ports with RS-232 transceivers MAX3243E, TIA/EIA-232-F, up to 250kbps, for front panel I/O (D-Sub connectors 9-pin male, COM port pin assignment) • Two UART ports for use on C32-FIO mezzanine module (option), TTL level signals
Applications	• NVMe SSD based mass storage solution, 2 x M.2 connectors for PCIe based modules • Classic COM port front I/O (RS-232), expandable to 4 ports • 3rd DisplayPort receptacle (video output) for 4k capable multi-monitor applications • USB 3.0 based port for communication or removable storage
Regulation & Environmental	• 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 0°C to +70°C (commercial temperature range) • Operating temperature -40°C to +85°C (industrial temperature range) on request • 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 59.6 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.