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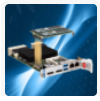
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C48-M2

Dual M.2 SATA SSD Low Profile Mezzanine Storage Module

Inquiry




media. Both sockets can be used individually, for up to 6G (SATA 3) data transfer rate.
M.2 is a popular standard for small size mezzanine modules. defined by the PCI-SIG®. The C48-M2 is suitable for SATA style M.2 SSDs, which are referred to as 'Socket 2 SSD/Other' in the M.2 specification (connector key B, module key B+M). The C48-M2 accommodates M.2 SATA capacity of 2TB as of current.
The C48-M2 connects to the mezzanine expansion connector HSE of the CompactPCI® CPU carrier. The C48-M2 is designed to fit into the 4HP (20.32mm) envelope of the CPU carrier board, but can also be used on some mezzanine side cards, for a 8HP or 12HP total front panel width assembly.

Downloads & Resources

Documents

- Technical Information
- Block Diagram

General Information

- C4X Series Overview

Ordering Information

Read more

Expansion Modules

C23 C32 C44 C45 CCI CCK CCL CCO PCL PCS SCS

Specifications

Form Factor

- Proprietary size mezzanine module 66mm x 95mm
- Fits basically into the 4HP (20.3mm) envelope of the CPU carrier board
- Typically delivered as a ready to use assembly unit (including PC3/SC1-ALLEGRO, PC4/SC2-PRESTO or successor CPU card)
- Mounting position right (on top of CPU board)

Host I/F Connector (Bottom Mount, Towards Carrier)

- High Speed mezzanine connector suitable for several EKF CPU carrier boards and side cards
- Connects to the carrier card connector HSE (High Speed Expansion)
- Up to 4 x SATA 6G channels (two channels in use on C48-M2)
- 4 x USB 2.0 ports (not in use on C48-M2, denoted here for reference only)
- Power sourcing 1.5 A maximum continuous current via 3.3V rail (2 pins)
- Power sourcing 1.5 A maximum continuous current via 5V rail (2 pins)
- SATA1 channel wired to the M.2-1 host connector 1
- SATA2 channel wired to the M.2-2 host connector 2
- SATA1/2 controller devices: please refer to particular carrier card description
- SATA3 – SATA4 not in use on the C48-M2 module

M.2 Module Connectors

- 2 x M.2 module sockets (M.2-1, M.2-2)
- PCI Express® M.2 Specification Socket 2 (SSD/Other)

- Single- and double-sided M.2 modules accepted S1-S3 & D1-D5
- Variable size 2230, 2242, 2260, 2280
- M.2 socket power 3.3V/1.5 A maximum continuous current
- M.2-1 socket sourced directly by CPU card host connector +3.3V rail
- M.2-2 socket sourced via voltage regulator from host connector +5V rail
- Electronic power switches for overcurrent protection and undervoltage lockout
- Maximum M.2 module power consumption 4750mW

Environmental & Regulatory

- Operating temperature: -40°C … +85°C (depends on M.2 modules in use)
- Storage temperature: -40°C … +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
- MTBF 196.9 years
- RoHS compliant
- EN55022, EN55024, EN60950-1 (UL60950-1/IEC60950-1)
- Coating, sealing, underfilling on request
- Long term availability
- Designed and manufactured in Germany
- Custom specific development on request

Simplified Block Diagram

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