XM 620/x01

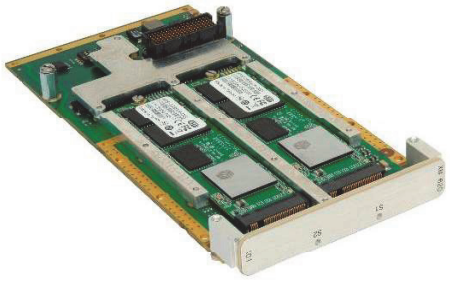
N, E, K, RC - Series

Dual M.2 PCIe SSD Carrier XMC Module

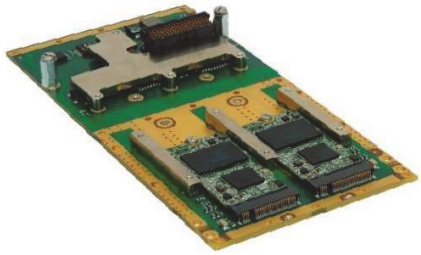
Key Features

XM 620/x01 is an XMC adapter designed to carry up to two M.2 PCIe® SSD storage devices. It is suitable for use on a host board with an XMC site.

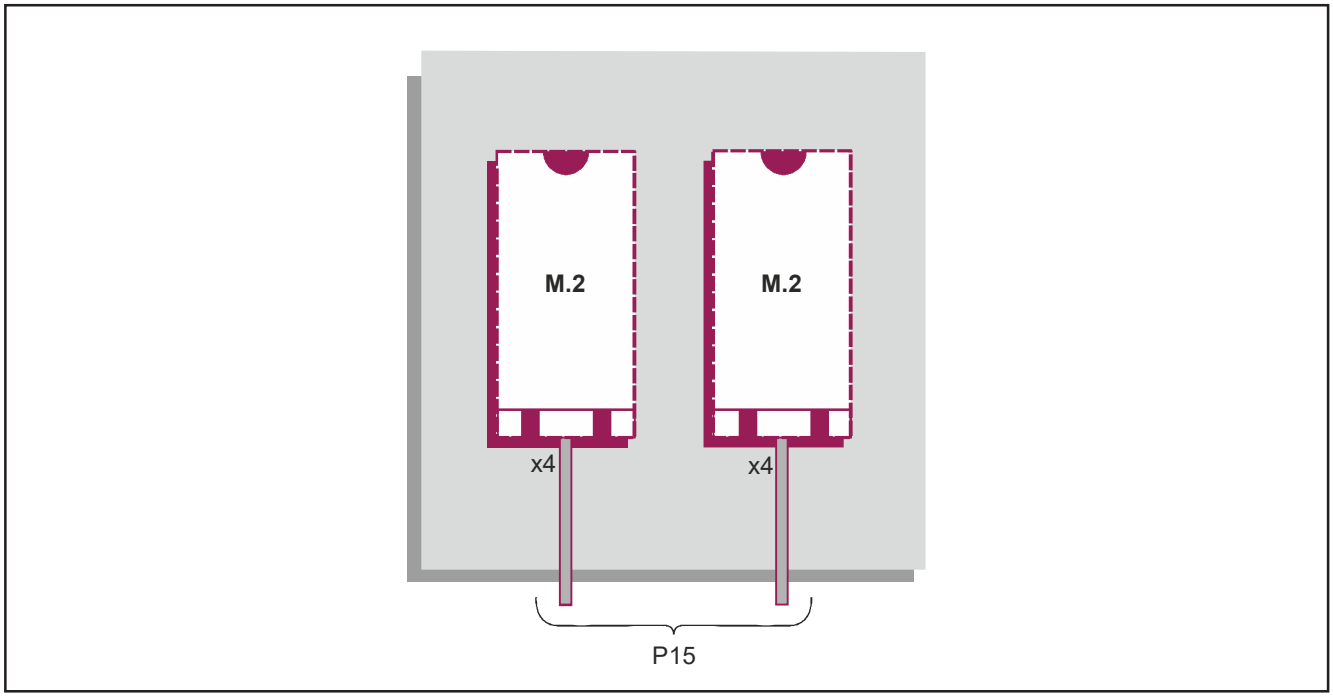
- Designed to carry up to two M.2 PCIe SSD devices
- Supplied with retention screws and stiffener bars
- Suitable for use on a board with an XMC expansion slot
- Air-cooled and conduction-cooled versions available
- Extended operating temperature versions available



Air-cooled Build Option: 2 x M.2 Devices Fitted



Conduction-cooled Build Option: 2 x M.2 Devices Fitted



CONCURRENT TECHNOLOGIES

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Specification

Dual M.2 PCIe SSD Carrier XMC Module

- XMC module designed to carry up to two M.2 PCIe® SSD devices supporting:
  - x4 PCI Express® (PCIe®) interface (M-key)
  - NVM Express® (NVMe™) logical device interface
  - NVMe 1.3 compatible
  - RAID modes 0, 1, 5 and 10 when used with a software RAID driver
- build option for air-cooled (N, E, K-Series) or rugged conduction-cooled (RC-Series)
- factory fitted M.2 device options:
  - without M.2 devices fitted (air-cooled only)
  - 1 x M.2 device fitted
  - 2 x M.2 devices fitted
  - contact sales for M.2 device memory capacity
- hot-swap is not supported
- front panel LED activity indicator

XMC Interface

- x4 PCIe interface for each M.2 site:
  - supports Gen 1, Gen 2 and Gen 3
- Pn5 XMC connector type (build option) determines the maximum PCIe operational speed:
  - up to Gen 2, VITA 42 XMC (color black)
  - up to Gen 3, VITA 61 XMC 2.0 (color white)
- complies to PCI Express Protocol Specification 3.0

Software

- the host board's BIOS and the target operating system must include PCIe NVMe drive support

Electrical Specification

- VPWR current without M.2 devices fitted, select from either:
  - +5V VPWR @ 0.5A max.
  - +12V VPWR @ 0.2A max.
- +5V +5%/-5%, +12V +5%/-5%
- -12V not utilized

N, E, K: Environmental Specification

- Type 2242 and 2280 devices
- operating temperatures:
  - 0°C to +55°C (N-Series)
  - -25°C to +70°C (E-Series)
  - -40°C to +85°C (K-Series)
- non-operating temperature: -40°C to +85°C
- 5% to 95% Relative Humidity, non condensing:
  - K-Series includes humidity sealant

RC: Environmental Specification

- Type 2242 device
- conduction-cooled operating temperature (RC-Series):
  - VITA 47 Class CC4, -40°C to +85°C
  - conduction-cooled
- non-operating temperature:
  - VITA 47 Class C4, -55°C to +105°C
- operating altitude:
  - -1,000 to 50,000 feet (-305 to 15,240 meters)
- 5% to 95% Relative Humidity, non-condensing:
  - includes conformal coating

Mechanical Specification

- single size CMC (Common Mezzanine Card) 74mm x 149mm:
  - conforming to ANSI/VITA 42.0-2008
- 10mm height stack module

Please contact your local Concurrent Technologies sales office for further details on board build options and accessories.

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