AD CR3/PMC

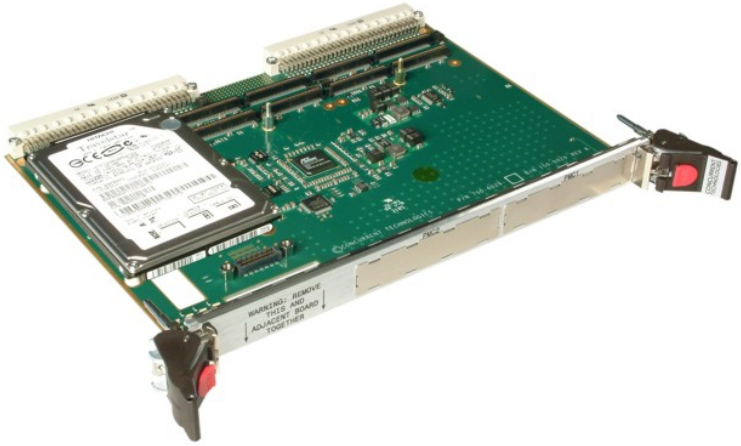
N, E, K - Series

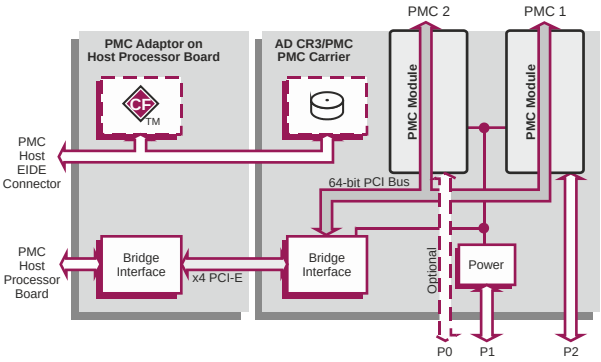
Dual PMC Carrier Board

Key Features

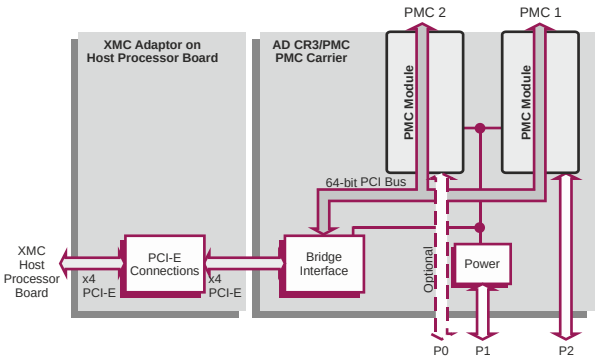
AD CR3/PMC consists of a Carrier Board with two PMC sites and a host adapter board that can be used with a range of Concurrent Technologies' VME boards.

- Supports two single size or one double size PMC Module
- Includes host adapter board that fits on a vacant PMC or XMC site of the VME host card:
  - ➔ PMC host adapter includes a CompactFlash™ slot and the option to fit a 2.5-inch drive on the Carrier Board
- Includes interconnecting cable
- Versions available for extended operating temperature





AD CR3/PMC Carrier with PMC Interface



AD CR3/PMC Carrier with XMC Interface

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Specification

PMC Interfaces

- 2 x PMC sites and for both sites:
  - ➔ I/O via front panel, via P2 for site 1 and optionally via P0 for site 2
  - ➔ 32/64-bit and 33/66 MHz PCI operation
  - ➔ 3.3V PCI signaling only
- 64 I/O signals via optional P0 connector
- 64 I/O signals via P2 connector
- I/O pin mapping compliant with ANSI/VITA 35-2000 P4V0-64 & P4V2-64ac PMC I/O wiring standards
- carrier provides 3.3V supply
- utilizes PCI 3.0 electrical specification
- utilizes PCI logical layer specification
- complies with CMC (Common Mezzanine Card) standard (IEEE P1386)

AD CR3/PMC Carrier Interface

- connects to the host processor board using either PMC or XMC adaptor:
  - ➔ PMC interface at up to 64-bit/66MHz
  - ➔ XMC PCI Express® (PCIe®) interface at up to x4
  - ➔ utilizes PMC/XMC site on host board
- carrier uses flexible cable connection with either PMC or XMC adaptor:
  - ➔ uses x4 PCIe cable connection
  - ➔ boards are located in chassis together, then pushed into backplane separately
  - ➔ easier to insert and eject

Compatible Host Boards

- contact your local sales office for the latest range of boards supported.

EIDE Interface (Legacy only)

- extends host board's EIDE interface:
  - ➔ uses host board's EIDE connector
- single channel for up to two devices (master and slave)
  - ➔ on-board disk drive and CompactFlash
- EIDE interface can be fully used in conjunction with both PMC sites

Software Support

- carrier features standard PCI-PCI bridge(s):
  - ➔ PMC modules appear on additional PCI bus
- compatible with various operating systems, for example VxWorks, Windows XP, Windows 2000 or Linux

Environmental Specification

- compatible with host boards operating at:
  - ➔ 0°C to +55°C (N-Series)
  - ➔ -25°C to +70°C (E-Series)
  - ➔ -40°C to +85°C (K-Series)
- 10% to 90% Relative Humidity non-condensing
  - ➔ K-Series includes humidity sealant
- -40°C to +85°C (non-operating)
- 10% to 90% Relative Humidity non-condensing

Electrical Specification

- all voltages to be within ±5%
- power taken from VME bus P1 connector
- 1.2A (maximum) current consumption at +5V
- 0.0A current consumption at +12V
- 0.0A current consumption at -12V

Mechanical Specification

- utilizes a single VME slot
- has a VME front panel:
  - ➔ VME 6U dimensions
- shock:
  20g, 11ms, ½ sine (operating);
  30g, 11ms, ½ sine (non-operating)
- vibration:
  5Hz-2000Hz at 2g, 0.38mm peak displacement (operating);
  5Hz-2000Hz at 5g, 0.76mm peak displacement (non-operating)

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

Datasheet Code 1480/0217