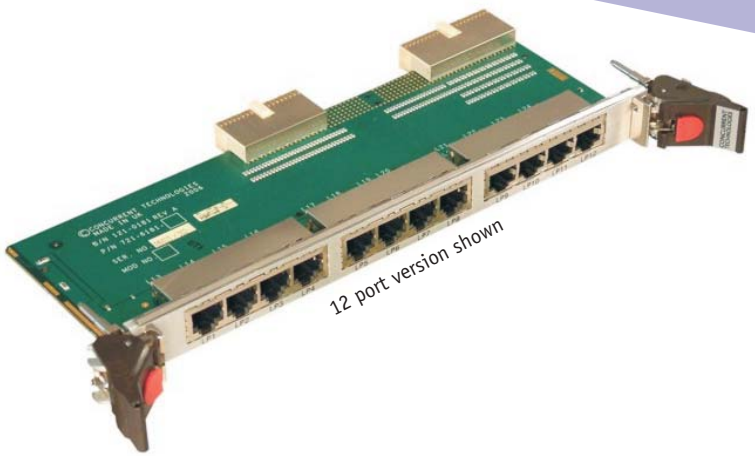
CompactPCI

AD FP1/001

N, E, K - Series

Ethernet Switched Fabric Transition Module



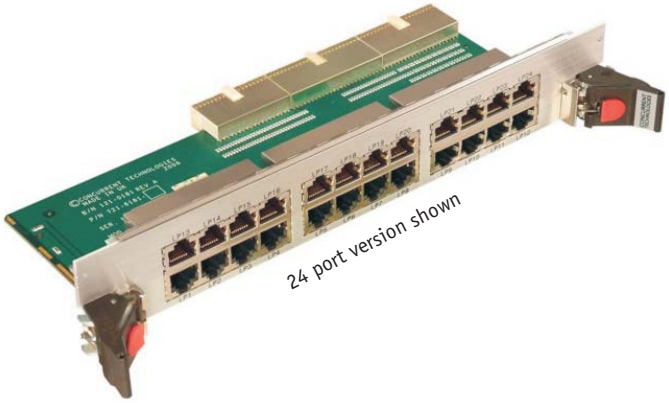
RoHS 2002/95/EC

APPLICATIONS

The AD FP1/001 is designed to be used with Concurrent Technologies' Switched Fabric Boards, including the FP 110/019 and FP 110/008-U. The Transition Module mounts in the rear transition area of the CompactPCI® backplane and provides simple access to the Ethernet ports when used with conventional CompactPCI backplanes. The Transition Module is available in two styles: a single slot board with 12 ports on the front panel or a dual slot board with 24 ports available. Options to operate in extended temperatures, ranging from -40°C to +85°C are available.

HIGHLIGHTS

- Up to 24 x 10/100/1000Mbps Ethernet ports:
  - accessed via RJ45 connectors on Transition Module's front panel
- 12 and 24 port versions available:
  - 12 port version uses single slot
  - 24 port version uses dual slots
- Extended temperature version available:
  - -25°C to +70°C (E-Series)
  - -40°C to +85°C (K-Series, includes humidity sealant)
- Interfaces with Concurrent Technologies' Switched Fabric Boards:
  - FP 110/008-U (10-port Gigabit Switch)
  - FP 110/019 (24-port Gigabit Switch)
- Designed for use with non-PICMG 2.16 CompactPCI backplanes



CONCURRENT TECHNOLOGIES

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Ethernet Interface

- 12 or 24 channel versions available
- supports 10Base-T, 100Base-TX and 1000Base-T for UTP via RJ45 connectors on front panel
- designed for use with non-PICMG 2.16 CompactPCI® backplanes

Compatible Switch Boards

- FP 110/019:-
  - 24-port 10/100/1000 Mbps CompactPCI Switch
  - 19 ports routed to packet switched backplane or rear transition module
  - RoHS compliant
- FP 110/008-U:-
  - 10-port 10/100/1000 Mbps CompactPCI Switch
  - 8 ports routed to packet switched backplane or rear transition module
  - RoHS compliant
- FP 100/008:-
  - 10-port 10/100 Mbps CompactPCI Switch
  - 8 ports routed to packet switched backplane or rear transition module
  - not RoHS compliant

Electrical Specification

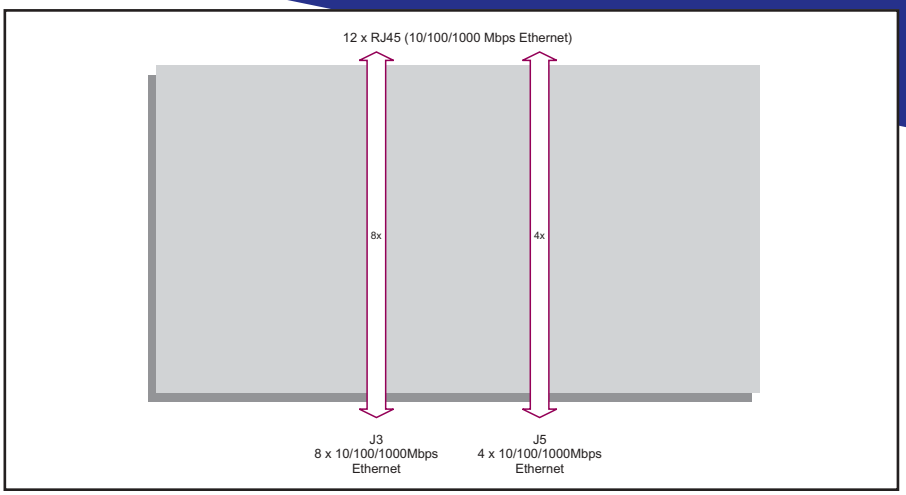
- +5V@0.0A; +3.3V@0.0A
  - there are no active components on the board

Environmental Specification

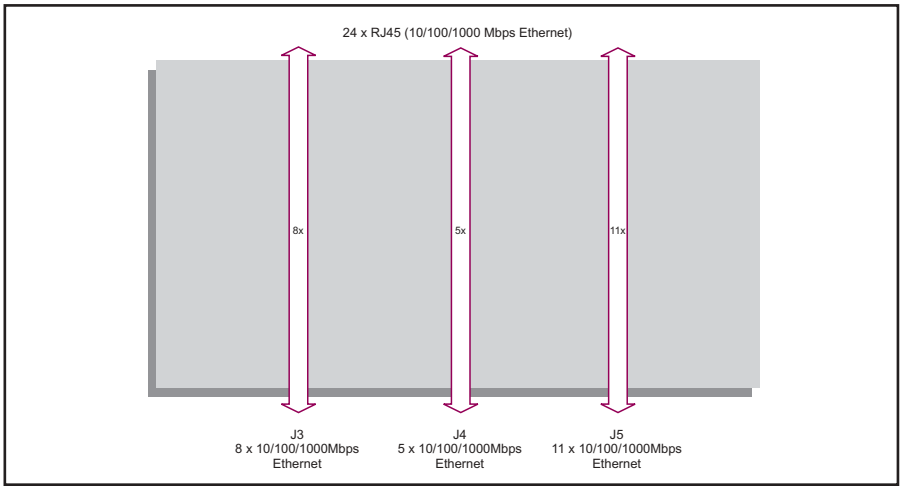
- operating temperatures:-
  - 0°C to +55°C (N-Series)
  - -25°C to +70°C (E-Series)
  - -40°C to +85°C (K-Series)
- -40°C to +85°C (storage)
- 5% to 95% Relative Humidity, non-condensing (operating)
  - K-Series includes humidity sealant
- 10% to 90% Relative Humidity, non-condensing (storage)

Mechanical Specification

- 6U form-factor: 9.2" x 3.2" (233.35mm x 80mm)
  - 12 port version fits in single-slot width (4HP)
  - 24 port version fits in two slots width (8HP)
- connectors: IEC-1076-4-101 for J3, J4 and J5
  - J4 fitted on 24 port version only
- 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)



Block Diagram for 12-port version (AD FP1/001-12)



Block Diagram for 24-port version (AD FP1/001-24)

ORDERING INFORMATION

Order Number	Product Description (Hardware)
AD FP1/001-12	CompactPCI Single Slot Ethernet RTM, 12 RJ45 ports
AD FP1/001-24	CompactPCI Dual Slot Ethernet RTM, 24 RJ45 ports

For extended temperature, E or K-Series, please contact your local sales office