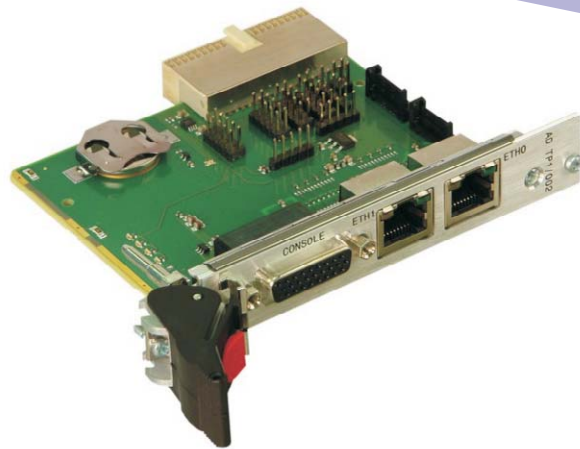


Transition Module



APPLICATIONS

The AD TP1/002 is designed to be used with Concurrent Technologies 3U CompactPCI® Slot Controller, the TP 402/351. This Transition Module mounts in the rear transition area of the CompactPCI backplane and provides very simple access to the majority of the I/O

functions provided by the TP 402/351. Many I/O functions are provided on the transition module's own front panel as well as from headers mounted on the module.

HIGHLIGHTS

- Transition Module for rear I/O:
 - 80mm depth as per CompactPCI specification
 - single slot
- Interfaces to CompactPCI via J2
- 2 x Serial ATA150 interfaces via standard SATA headers:
 - transfer rates up to 150Mbytes/s
- PC speaker via 5-way header
- 4 x General Purpose I/O signals via 5-way header
- 2 x USB interfaces via 26-way high density front panel connector
- 8-bits rear I/O accessed via 26-way high density front panel connector
- 2 x Ethernet channels accessed via front panel RJ45 connectors
- COM1 port via 4-way header
- COM2 port accessed via 26-way high density front panel connector
- Extended temperature versions available:
 - -25°C to +70°C (E-Series)
 - -40°C to +85°C (K-Series, includes humidity sealant)
- Ruggedized air-cooled version (RA-Series) also available:
 - -40°C to +75°C
 - conformally coated
 - see separate AD TP1/002-RA datasheet

Rear Transition Module

- compatible with TP 402/351 3U CompactPCI slot controller

Serial ATA150

- 2 x SATA150 interfaces via 2 onboard standard SATA headers:-
 - transfer rates up to 150Mbytes/s

USB Interfaces

- 2 x USB interfaces accessed via 26-way high density connector on front panel:-
 - available via two USB connectors on CB 26D/124-10 splitter cable

Serial Interface

- 4-way header for COM1:-
 - RS232 signal level
 - supports Rx/Tx only
- COM2 accessed via 26-way high density connector on front panel:-
 - RS232 or RS422/RS485 signal levels
 - supports Rx, Tx, CTS, RTS, DSR, DTR, DCD and RI signals
 - available via a 9-way (COM) connector on CB 26D/124-10 splitter cable

Ethernet Interfaces

- 2 x RJ45 connectors on front panel:-
 - supports 10Base-T, 100Base-Tx and 1000Base-T for UTP CAT5

XMC Interface

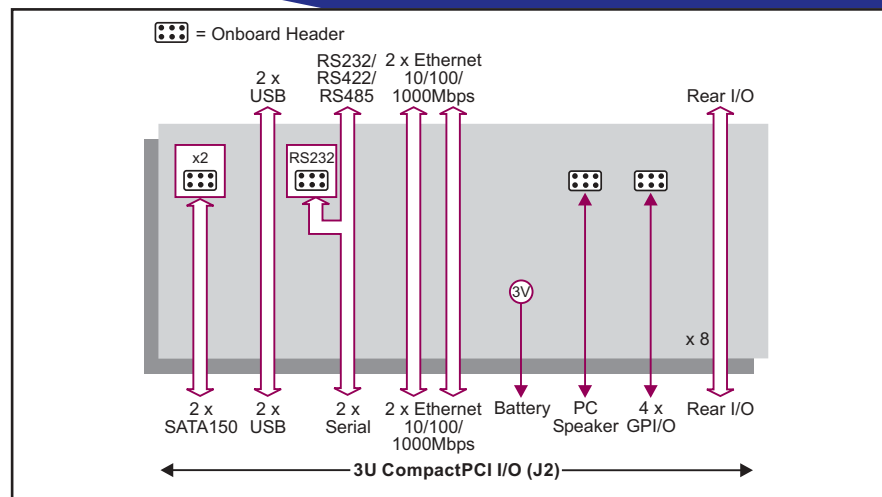
- 8-bits of I/O accessed via 26-way high density connector on front panel:-
 - available via a 15-way (VGA) D-type connector on CB 26D/124-10 splitter cable

Other Interfaces

- PC speaker via 5-way header
- 4 x General Purpose I/O signals via 5-way header
- 3V battery for processor NVRAM backup

Electrical Specification

- all voltages to be within $\pm 5\%$
- +5V@0.15A; +3.3V@0.0A; +12V@0.0A; -12V@0.0A

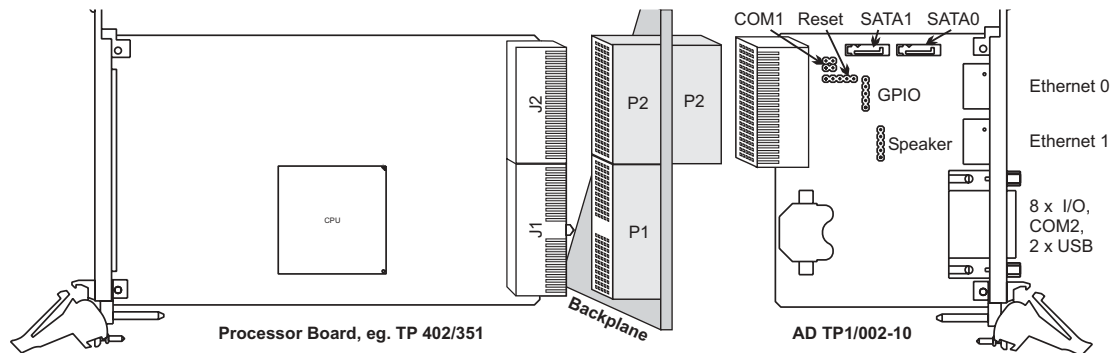


Environmental Specification

- operating temperatures:-
 - 0°C to +55°C (N-Series)
 - 25°C to +70°C (E-Series)
 - 40°C to +85°C (K-Series)
- 10% to 90% Relative Humidity, non-condensing (operating):-
 - K-Series includes humidity sealant
- 40°C to +85°C (storage)
- 10% to 90% Relative Humidity, non-condensing (storage)
- ruggedized air-cooled version also available:-
 - see separate AD TP1/002-RA datasheet

Mechanical Specification

- 3U form-factor:- 3.9" x 3.2" (99mm x 80 mm)
- single-slot: 0.8" (20.3mm)
- connector: IEC-1076-4-101 for J2
- shock:
 - 20g, 11ms, 1/2 sine (operating);
 - 30g, 11ms, 1/2 sine (non-operating)
- vibration:
 - 5Hz-2000Hz at 2g, 0.38mm peak displacement (operating);
 - 5Hz-2000Hz at 5g, 0.76mm peak displacement (non-operating)



ORDERING INFORMATION

Order Number Product Description (Hardware)

AD TP1/002-10 3U CompactPCI Transition Module for TP 402/351

CB 26D/124-10 26-way high density connector via cables to four connectors providing: COM2, USB1, USB2 and 15-way D-type with 8 x I/O lines

For extended temperature, E or K-Series, please contact your local sales office
For ruggedized version, see separate datasheet AD TP1/002-RA (air-cooled)