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# TM800

## Transition Module for C80x CompactPCI SBCs




- **Provides Standard Connection for Aitech C80x 3U CompactPCI SBC I/O Interfaces**
- **80 mm Module Depth Fully Compliant with IEEE 1101.11**
- **Rear Plug-in**
- **Double Slot Transition Module Provides All C80x I/O Interfaces**
- **Includes no Active Components**
- **Configuration Jumpers Available for I/O Routing Configuration**

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## *TM800 Transition Module*

Aitech's TM800 is provided as a complement to the C80x 3U CompactPCI SBCs.

The transition module provides standard direct connection to all the C80x I/O interfaces and is intended for use in commercial air-cooled chassis. The TM800 eliminates the need for any harnessing and complex cabling fixtures in order to connect to the C80x SBCs.

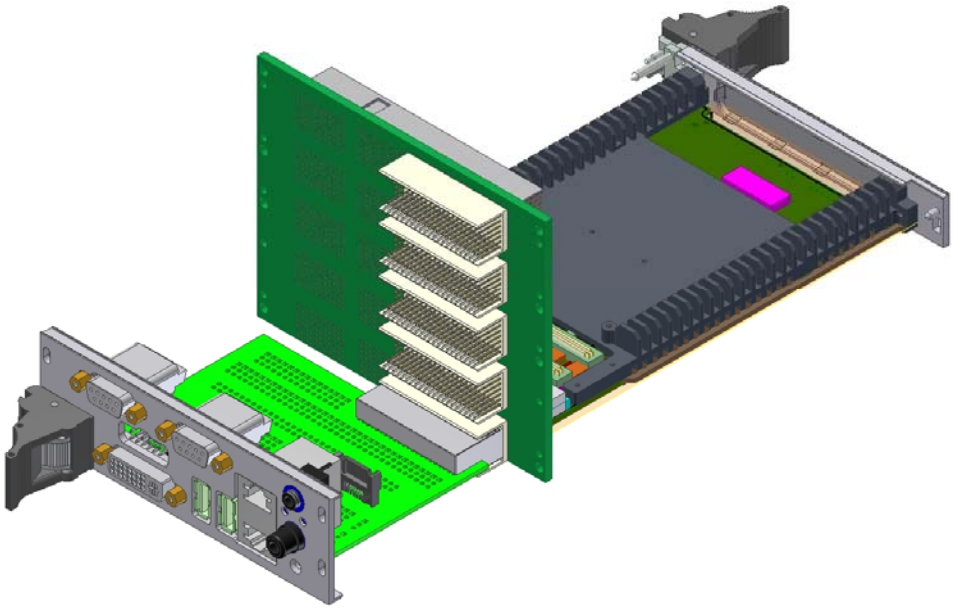
The TM800 fully complies with the IEEE 1101.11 specification and supports subracks capable of rear plug-in units.

The double slot transition module provides all C80x I/O interfaces while the single slot version provides reduced access.

In addition, the transition module provides a header to the PMC site of C80x SBCs allowing attachment of cables to the PMC I/O.

The transition module also provides jumpers to allow I/O routing for the C80x shared I/O pins as well as interface type customization for serial I/O interfaces.

The following figures illustrate the TM800 location in the system.



## *Functional Description*

### System Support

All TM800 versions are designed for enclosures whose rear module depth is 80mm, as specified in IEEE 1101.11. The TM800 may be adapted for use with enclosures whose rear module depth is greater than 80 mm by adding an extender (not included).

The TM800 combines both the CompactPCI rear I/O connectors and the front panel standard I/O connectors on a single board.

The double slot transition module provides connectors for all C80x I/O interfaces.

### I/O Connectors

The transition module provides standard connectors for all the C80x I/O interfaces. These connectors include the following:

- Two USB 2.0 type A connectors
- Two modular RJ45 jacks for the two Gigabit Ethernet ports
- 10-pin 90° header for 8 discrete I/O channels (4 differential pairs)
- Two 9-pin D-type connectors for the two serial I/O ports
- DVI-I jack for RGBHV interface
- DVI-I jack for DVI interface (C802 only)
- RCA jack for analog composite video (C800 only)
- RCA stereo jack for stereo line-out audio
- SATA 7-pin connector for SATA interface on the Transition Module PCB

### Configuration Jumpers

Since some C80x I/O signals share the same I/O pins at the P2 I/O connector with, the TM800 transition module provides the option to route these signals accordingly.

These shared I/O signals may be routed to the TM800 I/O flat cable headers as well as front panel connectors when the SBC is configured to route its local resources to the shared I/O pins (RGB, Ethernet, Serial I/O, CRT, SATA or Discrete I/O). When the SBC is configured to route these shared I/O pins to the PMC I/O, the transition module may be configured to route these signals to the PMC I/O flat cable headers.

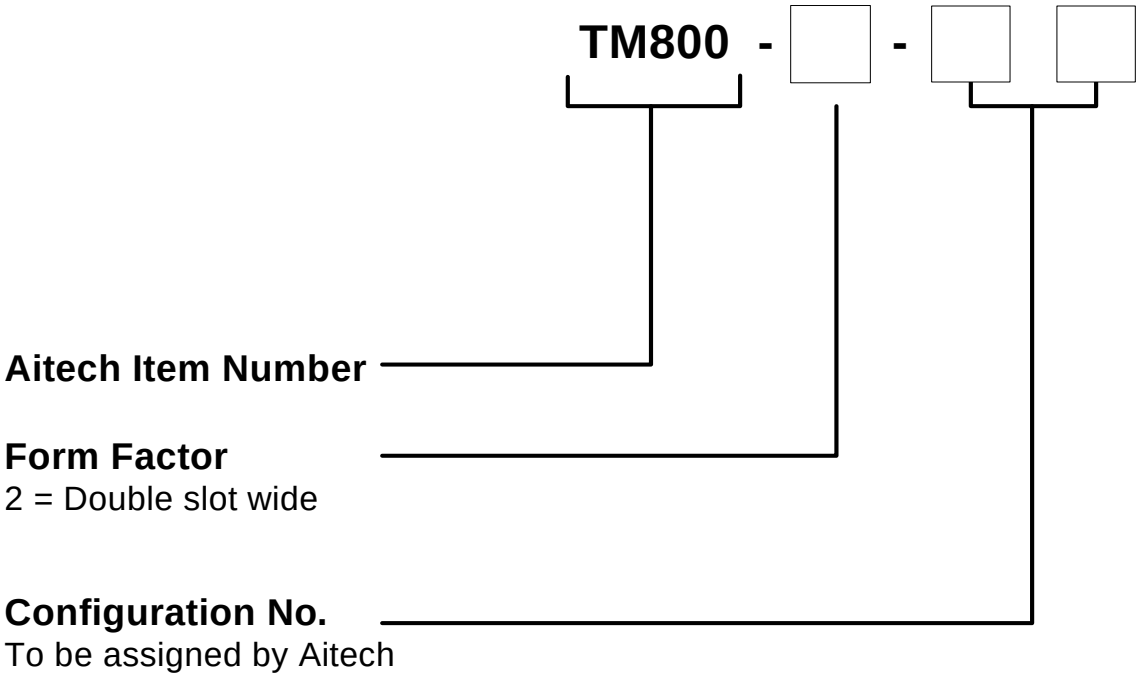
## *Mechanical Features*

The TM800 fully complies with IEEE 1101.11.

### Dimensions

- Backplane Adapter- per IEEE 1101.11 80mm depth type.
- Single Slot Transition Module – per IEEE 1101.1 Single slot front panel.
- Double Slot Transition Module – per IEEE 1101.1 Double slot front panel.

# Ordering Information for the TM800




**Example:** TM800-2-00

For more information about the TM800 or any Aitech product, please contact Aitech Defense Systems sales department at (888) Aitech-8 (248-3248).

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