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Find the *Aitech Defense Systems TM112* at our website: *Click HERE*

TM112

Transition Module for the C112 VPX SBC



- **Rear Transition Module for Use with Aitech's C112 6U VPX SBC**
- **Single-slot Format**
- **Connections to All C112 Onboard I/O Using Standard Cables**
- **Fully Compliant with VITA 46.10**
- **No Active Components**
- **Rear Plug-in Unit**
- **Reset Pushbutton**
- **Power Supply LEDs**
- **High Speed Connector Provides Access to All C112 PMC/XMC I/O**

Aitech Defense Systems, Inc.
A member of the Aitech Rugged Group
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Tel: (888) Aitech-8 (248-3248) Fax: (818) 407-1502 e-mail: sales@rugged.com web: www.rugged.com

TM112

Transition Module for the C112 VPX SBC

Functional Description

Front Panel I/O Connectors

The TM112 provides the following standard connectors for the C112 I/O interfaces. All connectors are on the TM112 front panel unless otherwise noted.

- One 9-pin Micro-D-type connector for serial port #0 (console).
- Four RJ-45 Gigabit Ethernet jacks
- One eSATA connector
- Two USB 2.0 type A connectors
- One 78-pin D-sub connector including Serial ports 1-9 and 16 Discrete I/O interfaces
- One 10-pin connector for the two MIL-STD-1553B channels
- JTAG via header pins on the circuit board
- Standard SATA power connector on the circuit board

Reset Button

A reset pushbutton on the TM112 front panel enables convenient reset of the C112 SBC.

PMC/XMC I/O

Two high speed connectors on the TM112 circuit board provide access to all single-ended and differential I/O of XMCs/PMCs installed on the C112. These connectors have the following characteristics.

- Pins rated for 1 A at 30 °C
- 12 V_{AUX}, -12 V_{AUX} and 3.3 V_{AUX} available at the connectors

Connector Kit

The TM112 is furnished with the following mating connectors and adaptors:

- Console adaptor cable – 9-pin micro-D to D-sub 9-pin male (Molex p/n 83421-9036)
- Mating connector for 78-pin D-sub (Amphenol p/n 77HDD78P)
- Mating connector for 1553B connector (Samtec p/n IPD1-05-D-K (shell) + CC79L-2024-01-L (pins))

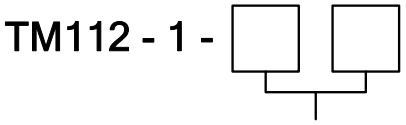
Mechanical Features

The TM112 complies with VITA 46.10 for 1" pitch Rear Transition Modules

Dimensions

- Standard 6U, 80 mm mounting depth
- All interface dimensions per ANSI/VITA 46.10-2009 – single slot front panel.

Ordering Information



Configuration No.
To be assigned by Aitech

Example: TM112-1-00

For more information about the TM112 or any Aitech product, please contact Aitech Defense Systems sales department at (888) Aitech-8 (248-3248).

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