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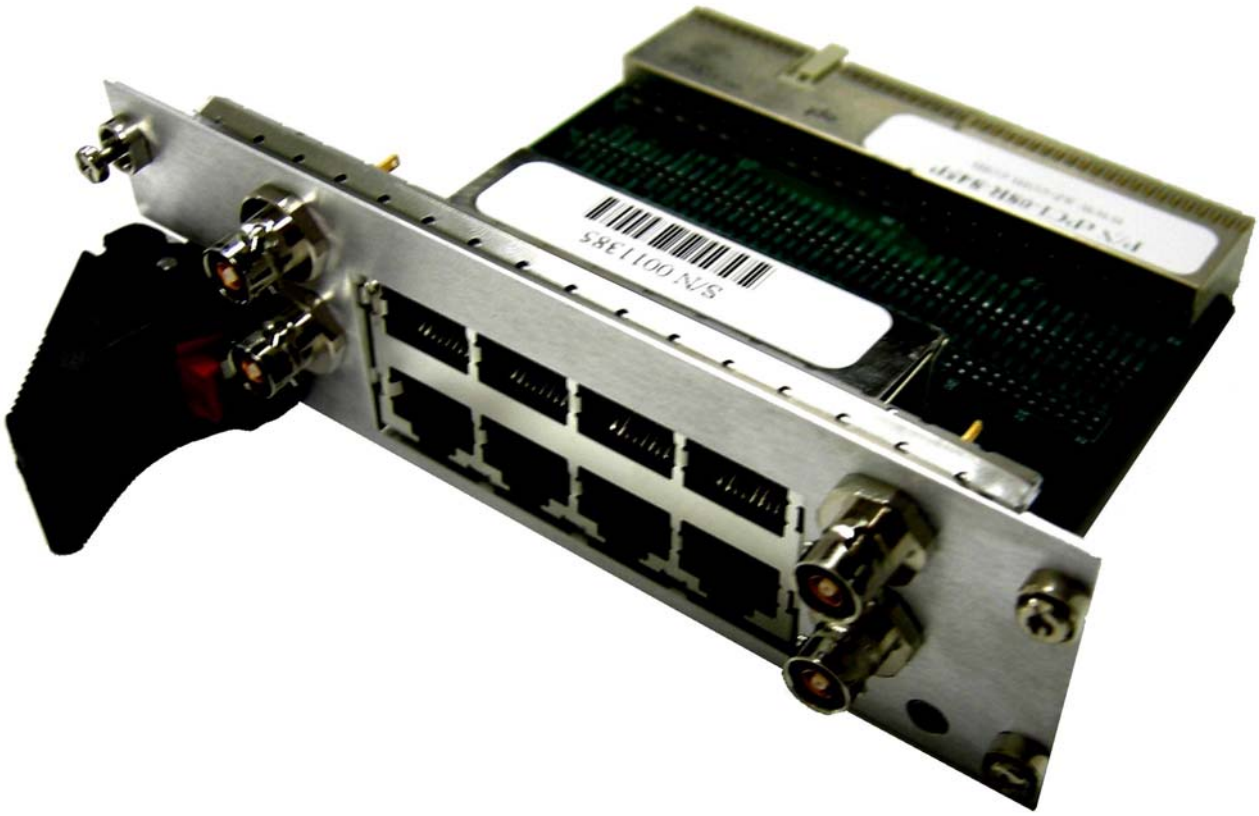
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TM950

3U CompactPCI Transition Module



- **Provide a Rear I/O Transition Module in 3U Form Factor**
- **Designed to use with the S950 SBC primarily in the Aitech Development Chassis**
- **Provide Connections (via CompactPCI J1 and J2 connectors) to**
  - **Onboard I/Os (Two Serial Ports on S950),**
  - **Some cPCI bus signals and voltage inputs, and**
  - **All 64 user-defined I/O signals from the hosted PCI Mezzanine Card**
- **Provide Rear Panel I/O for**
  - **Eight CAT5e RJ-45 shielded connectors, and**
  - **Four Removable Mini-Triax 1553 connectors**
- **Two-Slot Wide design (8HP form factor) with EMI gasket**
- **Optional Jumper Block is Available For Access By Flat Ribbon Cable Instead Of Rear Panel Connectors**

Aitech Defense Systems Inc.
A member of the Ai-Rugged Group
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TM950 Transition Module

The transition module provides standard direct connection to I/O interfaces on the S950 and the hosted PMC module and is intended for use in commercial 3U cPCI air-cooled chassis. The TM950 eliminates the need for any harnessing and complex cabling fixtures in order to connect to the S950 and the unique I/Os based on the PMC module used with the S950 in a single-slot solution.

The TM950 supports subracks capable of rear plug-in unit. The module with different assembly options through a wire harness, can be used with any type of PMC that is designed for use with the S950 single board computer. The module provides eight generic RJ-45 Cat5e shielded connectors and four BJ157 mini-triax MIL-STD-1553B connectors to meet the needs for various I/O requirements.

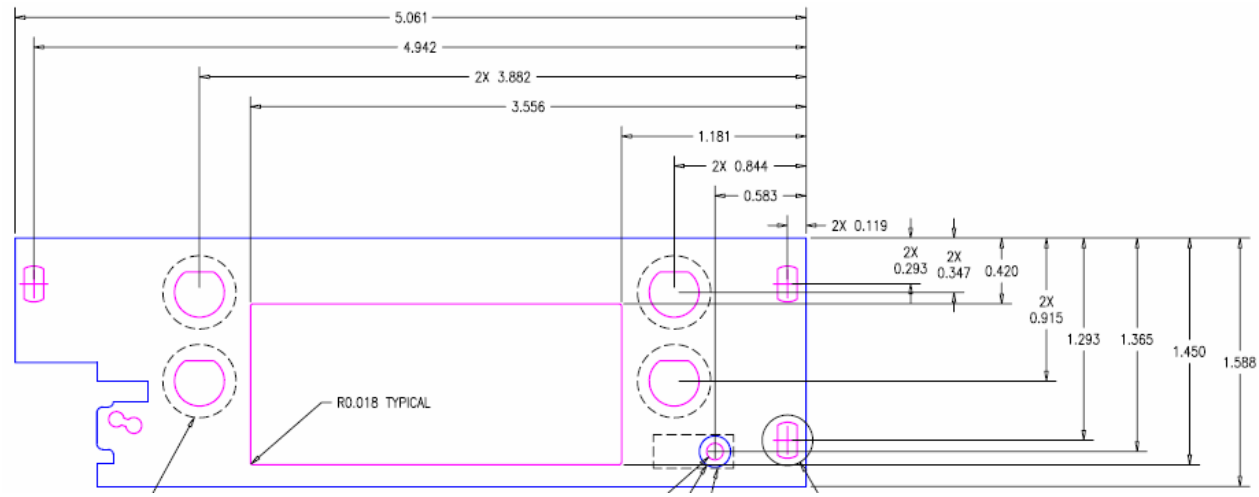
In addition, the transition module provides an optional header for each of the routed signal allowing to a flat-ribbon cable instead of using the I/O connectors mounted on the rear I/O panel. This is particularly useful for logic analyzer setup.

The following table illustrates the I/Os pinout from the cPCI J1 and J2 connector that are accessible via the header or wiring to the front panel for customer use. The signals are printed on the PCB for wiring ease.

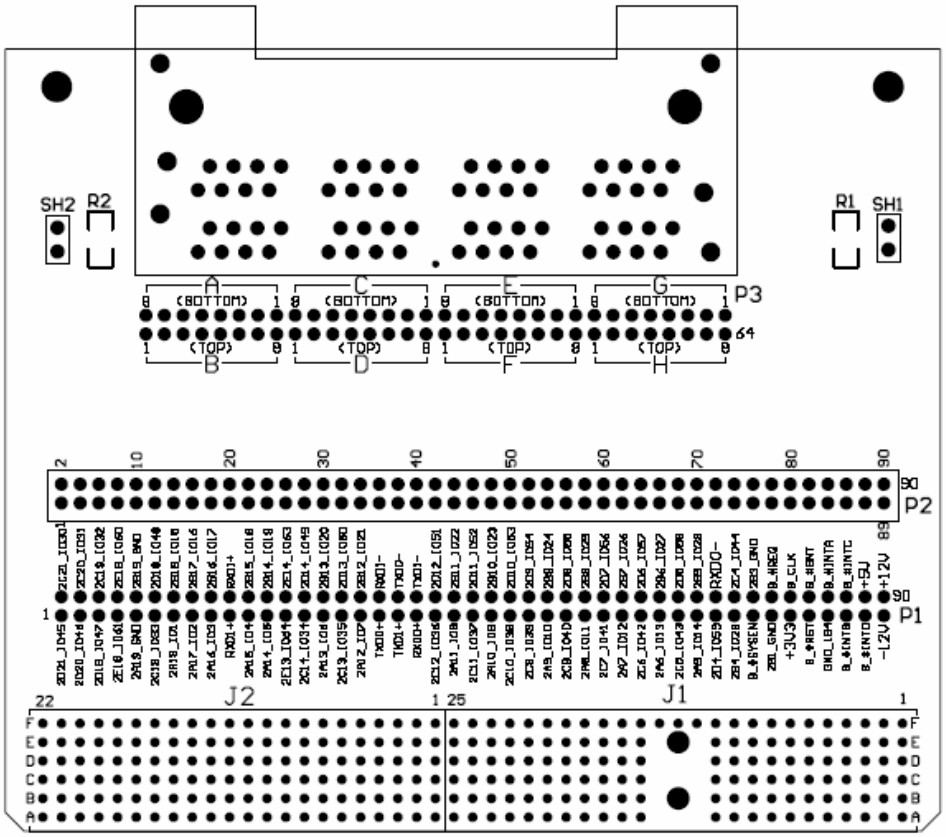
Pinout (Column 1)	Pinout (Column 2)
J2-D21, PMC IO_45	J2-C21, PMC IO_30
J2-D20, PMC IO_46	J2-C20, PMC IO_31
J2-D19, PMC IO_47	J2-C19, PMC IO_32
J2-E18, PMC IO_61	J2-E19, PMC IO_60
J2-A19, GND	J2-B19, GND
J2-C18, PMC IO_33	J2-D18, PMC IO_48
J2-A18, PMC IO_1	J2-B18, PMC IO_15
J2-A17, PMC IO_2	J2-B17, PMC IO_16
J2-A16, PMC IO_3	J2-B16, PMC IO_17
J2-E16, RXD1+	J2-E16, PMC IO_62
J2-A15, PMC IO_4	J2-B15, PMC IO_18
J2-A14, PMC IO_5	J2-B14, PMC IO_19
J2-E13, PMC IO_64	J2-E14, PMC IO_63
J2-C14, PMC IO_34	J2-D14, PMC IO_49
J2-A13, PMC IO_6	J2-B13, PMC IO_20
J2-C13, PMC IO_35	J2-D13, PMC IO_50
J2-A12, PMC IO_7	J2-B12, PMC IO_21
J2-E9, TXD0+	J2-E9, TXD0+
J2-E7, TXD1+	J2-E7, TXD1+
J2-E5, RXD0+	J2-E5, RXD0+
J2-C12, PMC IO_36	J2-D12, PMC IO_51
J2-A11, PMC IO_8	J2-B11, PMC IO_22
J2-C11, PMC IO_37	J2-D11, PMC IO_37
J2-A10, PMC IO_9	J2-B10, PMC IO_9
J2-C10, PMC IO_38	J2-D10, PMC IO_38
J2-C9, PMC IO_39	J2-D9, PMC IO_39
J2-A9, PMC IO_10	J2-B9, PMC IO_10

Pinout (Column 1)	Pinout (Column 2)
J2-C8, PMC IO_40	J2-D8, PMC IO_40
J2-A8, PMC IO_11	J2-B8, PMC IO_11
J2-C7, PMC IO_41	J2-D7, PMC IO_41
J2-A7, PMC IO_12	J2-B7, PMC IO_12
J2-C6, PMC IO_42	J2-D6, PMC IO_42
J2-A6, PMC IO_13	J2-B6, PMC IO_13
J2-C5, PMC IO_43	J2-D5, PMC IO_43
J2-A5, PMC IO_14	J2-B5, PMC IO_14
J2-D4, PMC IO_59	J2-E4, RXD0-
J2-B4, PMC IO_29	J2-C4, PMC IO_44
SYS_EN	J2-B3, GND
J2-B1, GND	J1-A6, #REQ
J1-C6, +3.3V	J1-D6, CLK
J1-C5, #RST	J1-E5, #GNT
J1B4 GND	J1-A3, # INTA
J1-B3, # INTB	J1-C3, # INTC
J1-E3, # INTD	J1-A1, +5V
J1-B1, -12V	J1-D1, +12V

Mechanical ICD

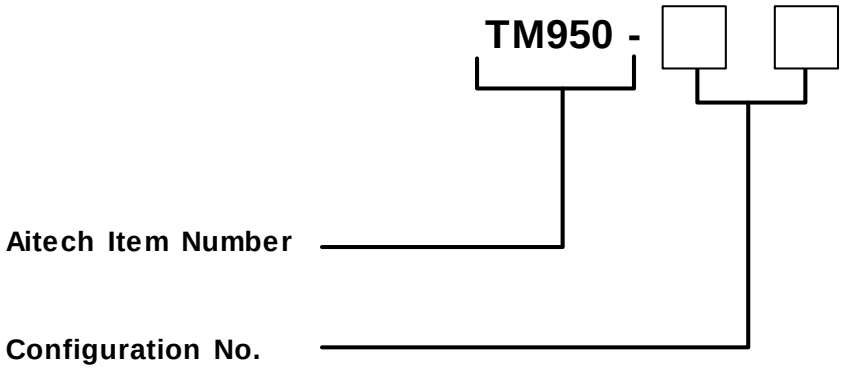


TM950 Front Panel Dimensions



TM950 PCB Layout and Dimensions

Ordering Information



To be assigned by Aitech

Available Configurations are:

TM950-00, "Blank" Transition Module
TM950-01, For use with M703-05 PMC
TM950-02, For use with S710-01 PMC

For more information about the TM950 or any Aitech product, please contact Aitech Defense Systems sales department at (888) AITECH-8 (888-248-3248).

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