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Find the *Aitech Defense Systems TM925* at our website: *Click HERE*

TM925

Transition Module for the C925 3U cPCI SBC



- ***Single or Double Slot Height, Rear Transition Module***
- ***Provides Standard Connection for the C925 PowerPC® 3U cPCI SBC I/O Interfaces***
- ***80 mm Module Depth Fully Compliant with IEEE 1101.11***
- ***Direct Rear Plug-in Unit for Subracks Supporting Rear I/O Plug-in Units***
- ***Provides User-access to C925 I/O Interfaces***
- ***No Active Components Onboard Consumes No Power***
- ***Preconfigured at the Factory to Support C925 Standard Product I/O***
- ***Configuration Jumpers are User-Accessible for Alternate I/O Routing Configurations***

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TM925 Transition Module

Aitech's TM925 is provided as a complement to the C925 PowerQUICC III® e500-based, 3U CompactPCI SBC. The transition module provides standard direct connection to all the C925 I/O interfaces and is intended for use in commercial /lab environment, air-cooled chassis. The TM925 eliminates the need for any harnessing and complex cabling fixtures in order to connect to the C925 SBC's onboard I/O.

The TM925 transition module fully complies with the IEEE 1101.11 specification and supports subracks capable of front and rear plug-in units as well as subracks capable of front plug-in units only. Two TM925 options/variants are available supporting rear transition module plug-in attachment only.

The TM925's I/O panel connectors include: two Gigabit Ethernet ports (one port only in the single slot version), two USB ports, two serial I/O ports (one port only in the single slot version) and 8 single-ended / 4 differential Discrete I/O channels. In addition, the transition module provides an internally mounted, header for the PMC site of the C925 allowing attachment of cables to the PMC I/O.

Two slot size options are available for the transition module – single slot height and double slot height. The double slot transition module provides all C925 I/O interfaces while the single slot transition module provides all C925 I/Os with the exception of one serial port and one Gigabit Ethernet port.

The transition module also provides on-board jumpers to allow selection of I/O routing for the C925 shared I/O pins as well as interface type customization for serial I/O interfaces.

The figure below illustrates a typical TM925 installation location within the subsystem chassis.

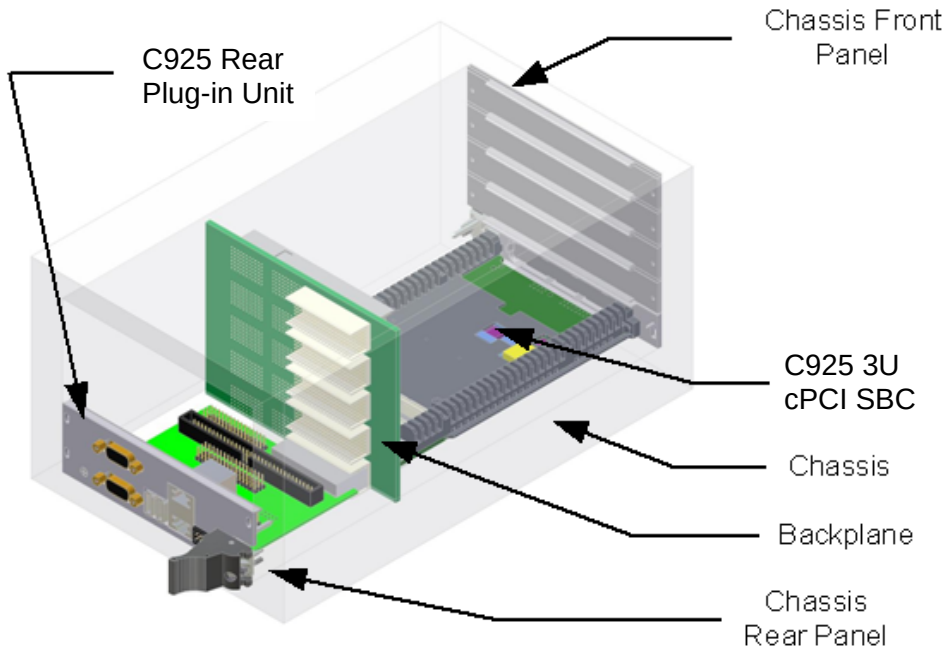


Figure 1. TM925 Rear Plug-in Configuration

Functional Description

System Support

The TM925 supports rear plug-in unit subracks.

When using subracks capable of rear plug-in unit installation, a single transition module kit is recommended and therefore needed. In this instance, the TM925 performs both as the rear I/O adapter at the backplane and the I/O connectors panel. Additional standard expansion units may be used to connect the transition module to the rear of the backplane when subracks are deeper than 80mm.

The rear I/O adapter is assembled only with 3U Compact PCI rear I/O connectors and flat cable headers. The transition module itself is assembled with flat cable headers and front panel standard I/O connectors.

Two form factor transition modules are available, single slot and double slot. The single slot transition module provides connectors to all C925 I/O interfaces with the exception of one serial I/O port (only serial port 0 is available) and one Gigabit Ethernet port (only LAN 0 is available). The double slot transition module provides connectors for all C925 I/O interfaces.

I/O Connectors

The transition module provides standard connectors for all the C925 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
- Two 8-pin 90° headers for 8 discrete I/O channels (8 S.E. or 4 differential pairs)
- Two 9-pin D-type connectors for the two asynchronous serial I/O ports
- Headers are provided onboard the TM925 for CANbus, PMC I/O and for other C925 I/O's not already routed to the TM front panel connectors

Configuration Jumpers

Since some of the C925 I/O signals share the same I/O pins at the backplane I/O connector, the TM925 transition module provides the option to route these signals accordingly.

These shared I/O signals may be routed to the C925 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 (Ethernet, Serial I/O 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 TM925 fully complies with IEEE 1101.11.

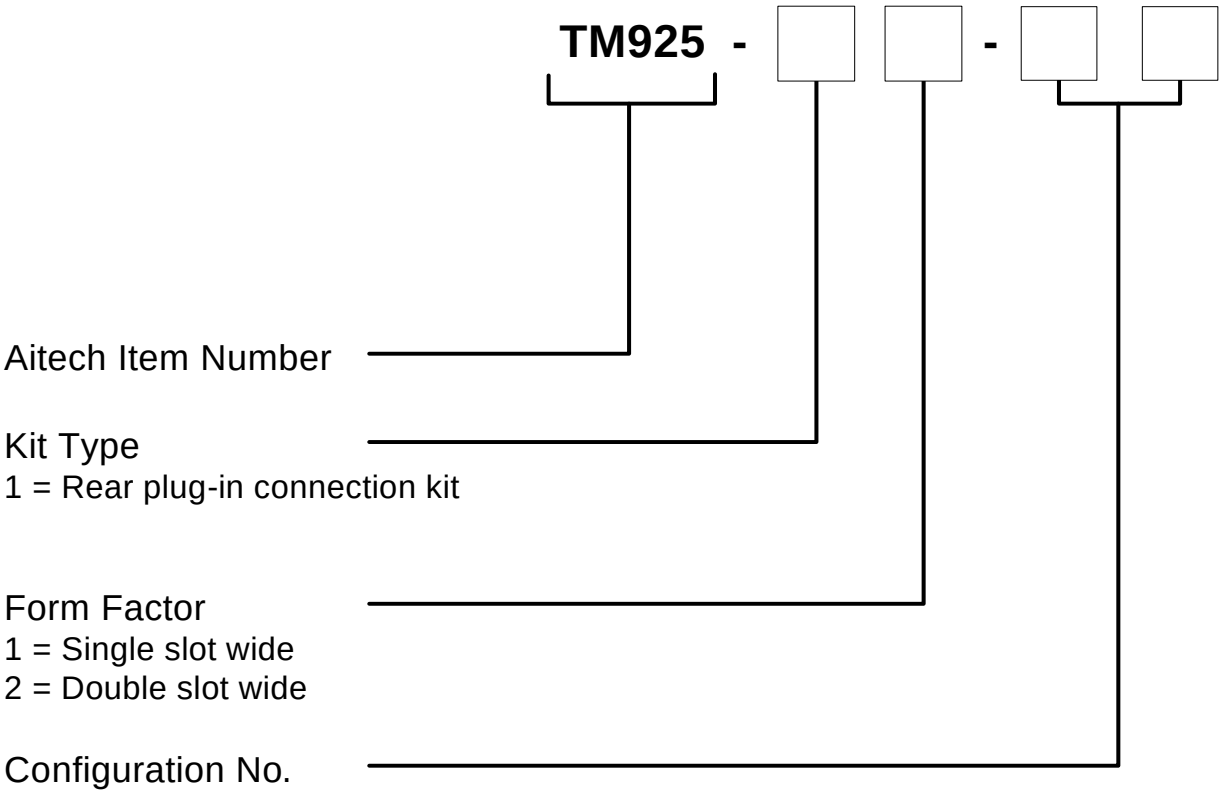
Dimensions

- 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.

TM925

Transition Module for the C925 3U cPCI SBC

Ordering Information for the TM925



Example: TM925-11-00

For more information about the TM925 or any Aitech product, please contact Aitech Defense Systems sales department at (888) Aitech-8 (248-3248).

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