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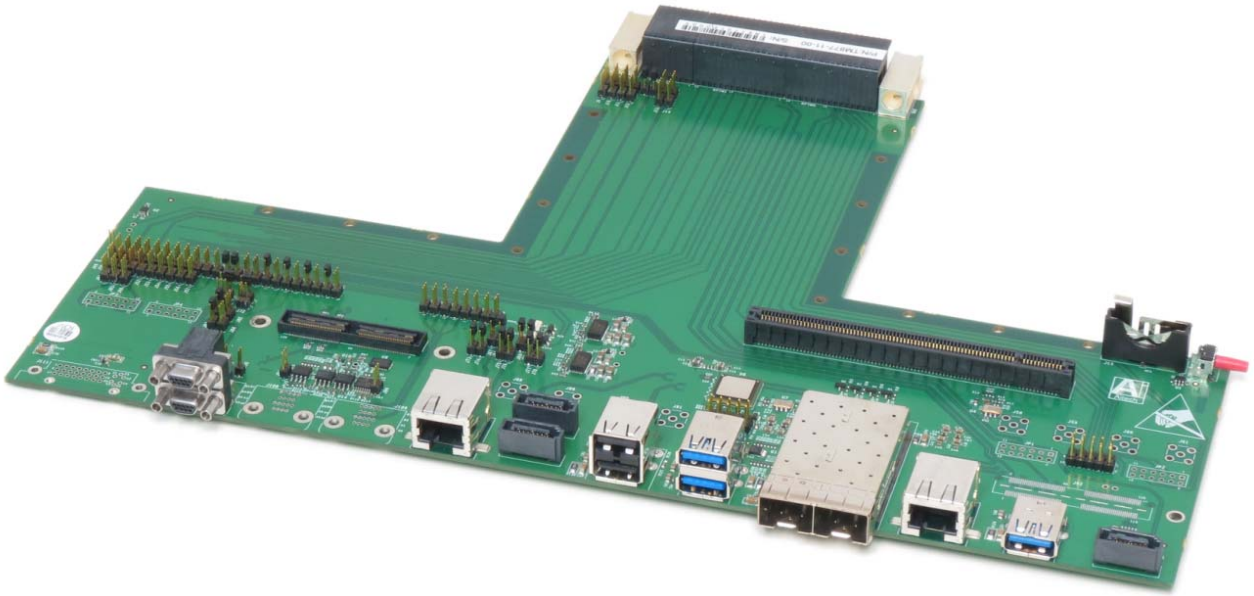
Find the *Aitech Defense Systems TM877* at our website: *Click HERE*

TM877

3U VPX RTM for the C877 SBC

Aitech

Embedded Computing *without* Compromise



- 3U VPX Rear Transition Module (RTM) for installation in standard ANSI/VITA 46.10 slots
- Standard Connectors for C877 I/O Interfaces
- High Speed Connector for C877 XMC I/O
- RTC Backup Battery Receptacle
- Reset Pushbutton
- 80 mm Mounting Depth



TM877

3U VPX RTM for the C877 SBC

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Overview

Supported Products	C877 3U VPX SBC
I/O Routing	TM877 supports all C877 I/O variants. Signals from backplane pins that differ in function per C877 I/O variant are routed to jumpers on the TM877 PCB, which select the TM877 connector to which the signals are routed.
System Compatibility	Supports both air-cooled and conduction-cooled versions of the C877, when installed in systems that meet the following specifications: • Chassis accommodates rear plug-in units • ANSI/VITA 46.10 compliant backplane with RJ0, RJ1, and RJ2 connectors on the rear side of the C877 slot • Compatible with TM877 specifications listed in the *Mechanical* section below

Supported Interfaces

C877 Interface	TM877 Interface
1000Base-T Ports	2 x RJ45 Connectors
1000Base-BX/KX / 10GBase-KR	2 x SFP Connectors (cage only, SFP modules not included)
SATA Ports	2 x SATA Plug Connectors
USB Ports	4 x USB Type A Connectors (1 x USB 3.0/2.0, 3 x USB 2.0)
Serial Ports	2 x 9-Pin Micro D Connectors
Discrete I/O	I/O Header Connector
Custom 10G SerDes Ports from Xilinx UltraScale+ FPGA	120-Pin High Speed Connector (Ports #0 & #1) 1 x SATA Plug Connector (Port #2) 1 x USB 3.0 Type A Connector (Port #3)
VPX SYSRESET# Signal	Reset Push Button
VPX P1_VBAT Signal	Coin Cell Battery Receptacle
IPMI I^2C Buses	I/O Header Connector
Tamper Detect Input	I/O Header Connector
XMC I/O	120-Pin High Speed Connector
PCIe	PCIe slot (connected to C877 Data Plane interface, can be used only on backplanes with Data Plane signals routed to RTM backplane connectors, for example: single-slot backplane)

Mechanical

- 3U VPX form factor
- 80 mm mounting depth
- Can be used in enclosures with mounting depth > 80 mm using an extender (not included)
- Supports installation in standard ANSI/VITA 46.10 RTM slots
- TM877 PCB extends beyond the standard RTM front panel location, with an expanded width in the area that extends outside of the enclosure, allowing the TM877 to be installed in a standard RTM slot while also providing additional room for I/O connectors

Contact your Aitech representative if more information on dimensions or mechanical compatibility is needed

Power

- VPX backplane 12 V and 3.3 V power supplies are routed to the PCIe slot
- If the PCIe slot is not used, only the VPX backplane 3.3 V power supply is required by the TM877, with typical power consumption of 4 W when two SFP modules are used

TM877

3U VPX RTM for the C877 SBC

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Ordering Information

TM877 - 0 0 - ☐ ☐

Reserved

Configuration No.
To be assigned by Aitech

Example: TM877-00-00

Contact Aitech

Contact your Aitech sales representative for additional product information, and for inquiries regarding customized configurations of the TM877.



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