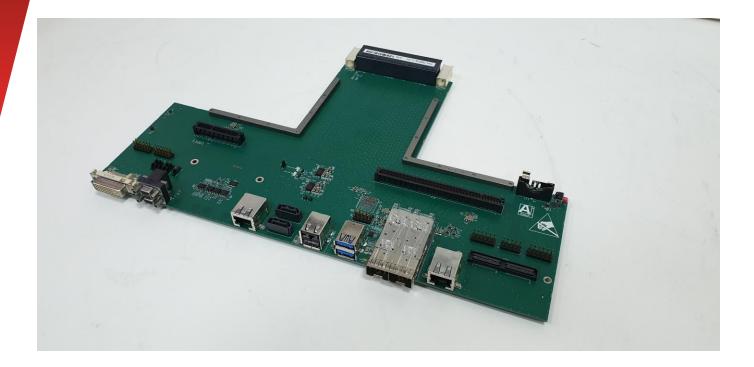


3U VPX RTM for the C878 SBC





- 3U VPX Rear Transition Module (RTM) for installation in standard ANSI/VITA 46.10 slots
- Standard Connectors for C878 I/O Interfaces
- High Speed Connector for Xilinx SerDes I/O's
- High Speed PCIe x16 Slot for PCIe signals
- RTC Backup Battery Receptacle
- Reset Pushbutton
- **80 mm Mounting Depth**



TM8788

TM878



Overview	
Supported Products	C878 3U VPX SBC
I/O Routing	TM878 supports all C878 I/O variants. Signals from backplane pins that differ in function per C878 I/O variant are routed to jumpers on the TM878 PCB, which select the TM878 connector to which the signals are routed.
System Compatibility	Supports both air-cooled and conduction-cooled versions of the C878, 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 C878 slot
	Ocean with a with TM070 and alter tange listed in the Mashanian Lasting balance

• Compatible with TM878 specifications listed in the Mechanical section below

Supported Interfaces		
C878 Interface	TM878 Interface	
HDMI Video output	DVI-I Connector (please use standard DVI-to-HDMI passive cable / adapter)	
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)	
VPX SYSRESET# Signal	Reset Push Button	
VPX P1_VBAT Signal	Coin Cell Battery Receptacle	
IPMI I ² C Buses	I/O Header Connector	
Tamper Detect Input	I/O Header Connector	
PCIe Slot x16	PCIe slot x16 lanes (connected to C878 VPX Data/Expansion Planes interface, can be used only on backplanes with Data/Expansion 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
- TM878 PCB extends beyond the standard RTM front panel location, with an expanded width in the area that extends outside of the enclosure, allowing the TM878 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

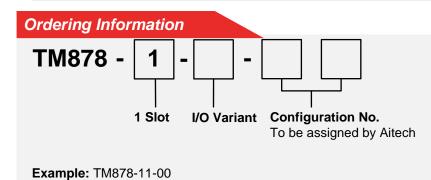
Power

- 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 TM878, with typical power consumption of 4W when two SFP modules are used

TM8788



TM878



Contact Aitech

Contact your Aitech sales representative for additional product information, and for inquiries regarding customized configurations of the TM878.



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