VT978

10GbE/1GbE Media Converter Optical to Copper with IEEE1588 Pass thru and Sync-E

VT978

Key Features

- 10G/1G Media converter from Optical **<->** Copper with IEEE-1588 pass thru and Sync-E
- Optic via SFP+
- Copper via RJ-45
- Clock Recovery from upstream Grand Master Clock on either Fiber or Copper side with pass thru to the other side

Benefits

- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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The VT978 is a standalone media converter that converts 10GbE/1GbE from optical <-> copper with pass thru IEEE-1588 and Sync-E capabilities. The optical side is interfaced via SFP+ and the copper side is via RJ-45. The clock recovery from the Grand Master Clock for Sync-E is recoverable from either the optical or the copper side with pass thru to the other side.

The module could be purchased without any metal installed for custom installation. The input power to the module is +12V.

NOTE: The media converters do not translate the speed of the connection. Both ports must be 10GbE or both ports must be 1GbE.
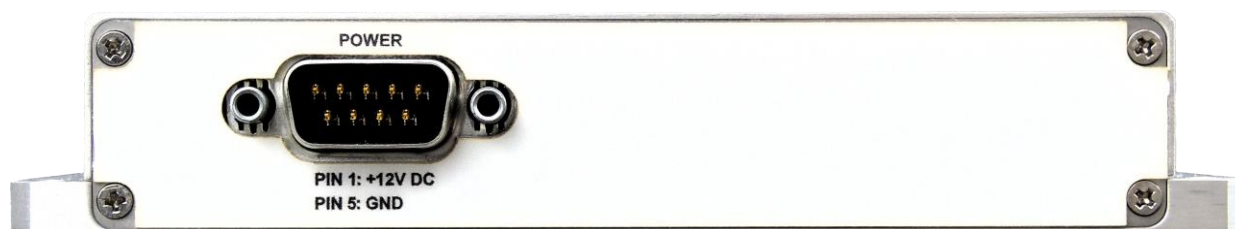

Figure 1: VT978

Figure 2: VT978 Front View
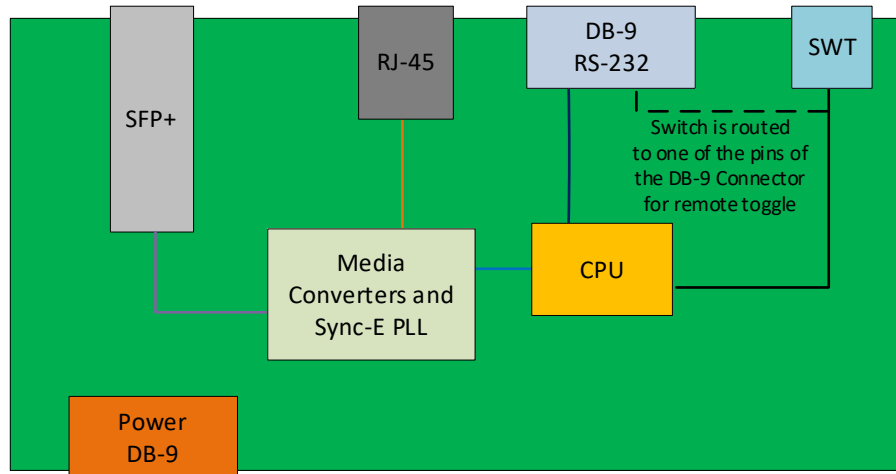

Figure 3: VT978 Rear View

Block Diagram

Figure 4: VT978 Functional Block Diagram

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Specifications

Architecture		
Physical	**Dimensions**	Width: 4.2" (107 mm) without the metal (PCB only)
		Length:4.4" (112 mm) without the metal (PCB only)
Type	**Media Converter**	10G/1G optical <-> copper
Standards		
Module Management	**IPMI**	IPMI v2.0 and PICMG 3.0
Configuration		
Power	**VT978**	3W, +12V input voltage
Environmental	**Temperature**	See Ordering Options
		Storage Temperature: –45° to +90°C
Other		
MTBF		MIL Hand book 217-F@ TBD hrs
Certifications		Designed to meet FCC, CE and UL certifications, where applicable
Standards		VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards
Warranty		Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.
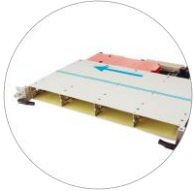
Ordering Options

VT978 – A00-000-0HJ

A = SFP+ Transceiver		
0 = 10/1G SR 1 = 10/1G LR (1KM) 2 = 10/1G LR (10KM)		
		H = Operating Temperature Range
		0 = Commercial (-5° to 65°C) 1 = Industrial (-40° to 85°C)
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

ATC133

- 10G ATCA Carrier
- Managed Layer 2 software
- Four full-size AMC slots

VT000

- Allows connection to shelf managers (such as VadaTech's bench-top style VT007)
- Powers a single ATCA module
- IPMI hardware address and parity

VT830

- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

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