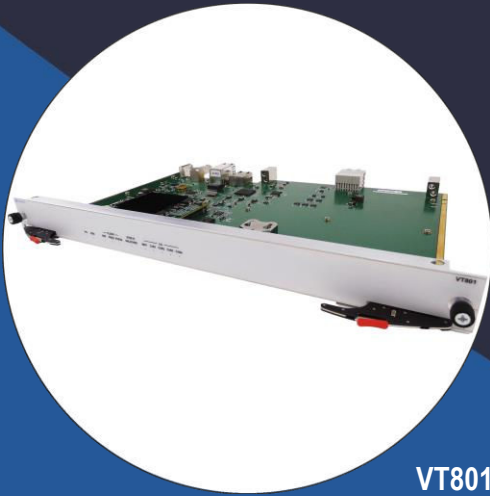# VT801

Network Aggregator and Clock Distribution Module for the VT505 Modules

VT801

Key Features

- Ethernet Switch
- 1GbE to each slot with 1GbE and 10GbE uplink
- Up to four VT505 could be utilizing with the VT979 Chassis and a single VT801
- IEEE1588/SyncE with external clock option (i.e. 1PPS) for synchronization clock distribution
- Calibration signal distribution to the VT505s
- RS-232 aggregator via a single USB port which allows access to the VT801 serial port and four VT505 serial ports
- Utilizing the VadaTech VT040 module for Management

Benefits

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

OpenVPX™

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VT801

The VT801 is a custom form factor module which allows up to four VadaTech VT505 modules be utilized in a single VT979 chassis. The VT801 reduces the number egress ports when multiple VT505 are being utilized.

The VT801 has an on-board Ethernet Switch which allows for the aggregation of four of the VT505 data output when utilizing the VT979 chassis. The module has a 1GbE and 10GbE for uplink to the external network.

The module also distributes the clock to each of the VT505 modules via the VT979 chassis which is synchronized to either IEEE1588/SyncE and/or the external clock (i.e. 1PPS).

The VT801 also takes the RS-232 port from each of the VT505 modules and converts them to a single USB port. The VT801 also accepts an external calibration signal and distributes it thru the VT979 chassis to the VT505 modules.

Figure 1: VT801

Figure 2: VT801 Top View

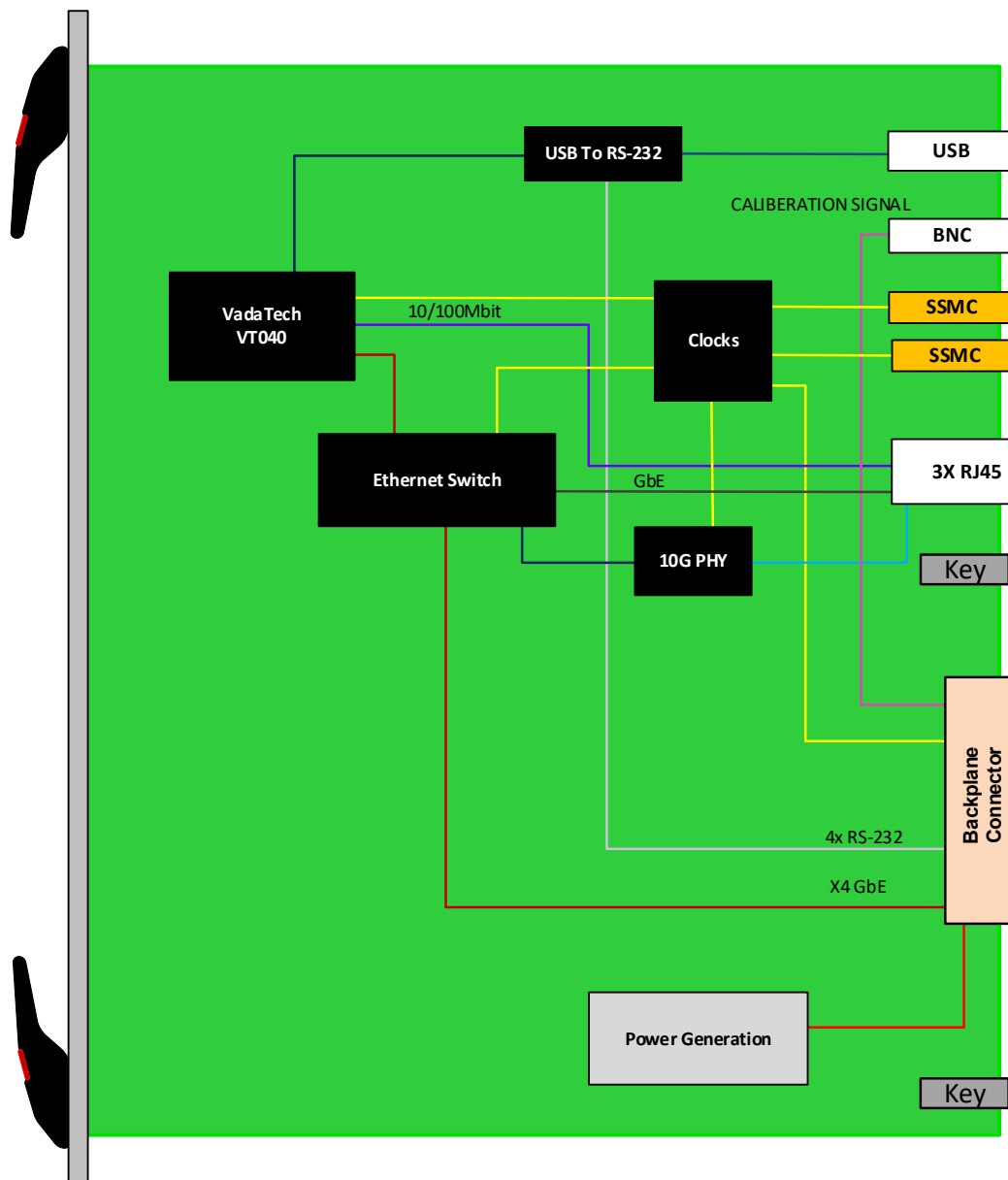*Figure 3: VT801 Front View*

Block Diagram

Figure 4: VT801 Functional Block Diagram
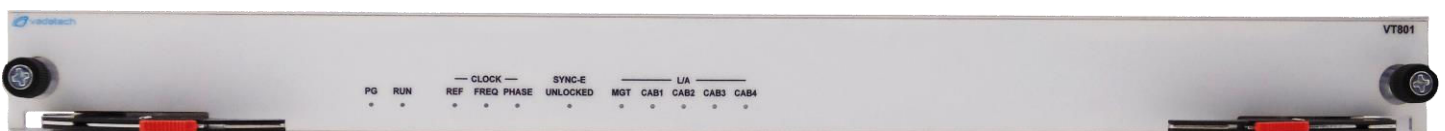
Front Panel

Figure 5: VT801 Front Panel View

VT801 – Network aggregator and clock distribution for the VT505 modules ·

Specifications

Architecture			
Physical	**Dimensions**	6HP; 9U length	
Configuration			
Power	**VT801**	15W	
Rear Panel	**Connectors**	2x SSMC for clocking	
		GbE via RJ-45; BNC for calibration signal	
		USB to RS-232	
VPX Interfaces	**Slot Profiles**	See Ordering Options	
	Backplane	4xGbE	
		4x RS-232	
		1PPS, 10MHz, Calibration signal distribution	
	Power Supplies	+12V	
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

VT801 – 000-000-GHJ

		G = Panel Height
		0 = 6HP
		H = Environmental
		0 = Commercial 1 = Industrial
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic 3 = Parylene

Environmental Specification

*Note: All the 16 modules will be the same

Related Products

VT505

- 16 Channels of ADC with Differential 32-bit $\Delta\Sigma$
- 8 to 768 kHz sampling
- S/(N+D) of ~112dB

VT979

- 4U Chassis that accepts VT801 and four VT505s
- Total of 64 ADC Channels with 32-bit $\Delta\Sigma$ when equipped with four VT505s
- Universal AC input with circular connector

Contact

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