

# VT979

4U Chassis to accommodate  
VT801 and 4x VT505 Modules

VT979



**vadatech**  
THE POWER OF VISION

## Key Features

- 4U Chassis that accepts VT801 and four of the VT505
- Total of 64 Channels of the ADC with 32-bit  $\Delta\Sigma$
- Universal AC input with circular connector
- Front to back cooling
- Circular connector for the ADC inputs
- Turnkey solution with all the ADC being synchronized with either IEEE1588/SyncE and/or an external clock (i.e. 1PPS from GPS)

## Benefits

- Turnkey solution and all integration done at VadaTech
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

**OpenVPX™**



# VT979

The VT979 is a five slots chassis that accommodates one VT801 and four of the VT505 modules.

## Power Supplies

The VT979 has a Universal AC power supply with circulator connector. There is an ON/OFF switch to turn on the AC and there is a separate switch on the opposition side of the chassis to turn on the DC supply to the modules.

## Cooling

The VT979 is front to back cooling.

## Backplane

The backplane provides five slots, one for the VT801 and four VT505. The VT505 are connected to each other thru a full mesh. The backplane routes the ethernet and RS-232 port from each of the VT505 to the VT801. The backplane also distributes the calibration signal from the VT801 to each of the VT505.

## I/O

All the 64 ADC are routed to the chassis panel using high quality audio cable to a multiple ganged circular connector (total of 8 circular connectors to carry the 64 ADC). The calibration signal is via a BNC style and there is a 10GbE for the uplink.

*Figure 1: VT979 Front View*

## Chassis Locator and Geographic Address

Each chassis could be assigned a unique Chassis Locator (CL) and each slot has a unique Geographic Address (GA) within the chassis. A combination of the CL/GA will provide a unique address for large deployment, which helps for example in the configuration of the IP address automatically.

*Figure 2: VT979 Rear View*

# Backplane Connection Options

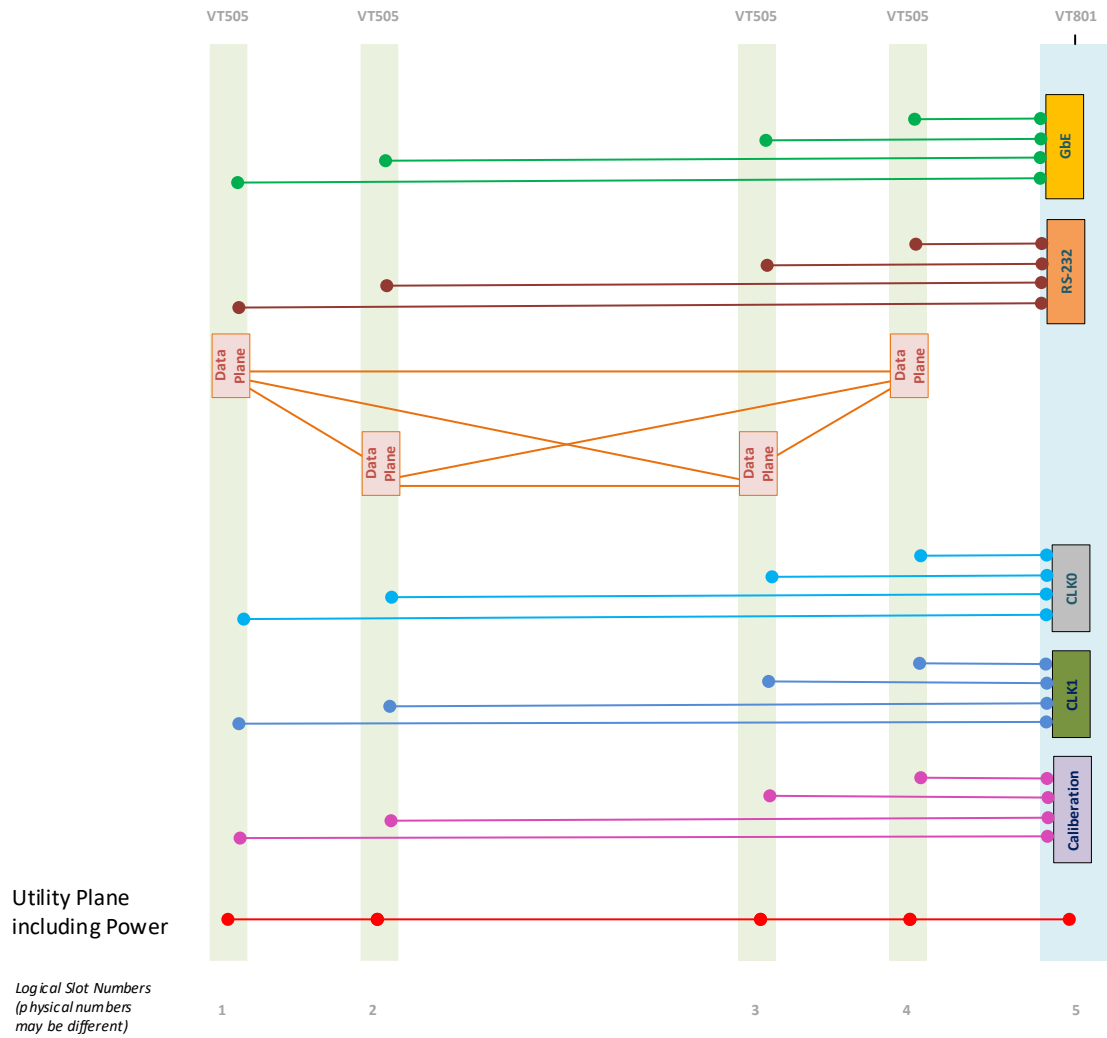


Figure 3: VT979 Backplane Connections

# Specifications

Architecture		
Physical	Dimensions	Height: 4U
		Width: 19"
		Depth: TBD
		Weight: TBD
Type	Custom form factor	4x VT505 and 1x VT801
Standards		
Custom	Type	Custom
Configuration		
Power	VT979	500W Universal AC
Environmental		See <a href="#">Ordering Options</a>
Cooling		Front to Back
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 ISO9001:2015 and AS9100D standards
Warranty		One (1) year, see <a href="#">VadaTech Terms and Conditions</a>

OpenVPX allows for a wide range of pin assignments and use cases. Prior to purchasing VadaTech products as standalone items (i.e., not part of an integrated platform) please consult with VadaTech on the system architecture to ensure compatibility.

## 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

## VT979 – A00-000-0HJ

<b>A = Number of VT505 installed</b> 0 = Four 1 = Reserved		
		<b>H = Environmental</b> 0 = Commercial 1 = Industrial
		<b>J = Conformal Coating</b> 0 = No coating 1 = Humiseal 1A33 polyurethane 2 = Humiseal 1B31 acrylic 3 = Parylene

## Related Products

VT801

- 

VT505

-

# Contact

## VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

## Asia Pacific Sales Office

7 Floor, No. 2, Wenhua Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

## VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

[info@vadatech.com](mailto:info@vadatech.com) | [www.vadatech.com](http://www.vadatech.com)

# Choose VadaTech

## We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



**vadatech**  
THE POWER OF VISION

## Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2020 VadaTech Incorporated. All rights reserved.  
DOC NO. 4FM737-12 REV 01 | VERSION 2.2 – MAR/25