VTX980

One Slot 3U VPX Benchtop
Development Chassis with RTM
(P0 to P2 installed)



Key Features

- One slot benchtop 3U VPX development platform
- Variable fan speed control for front and rear
- Support for conduction cooled modules
- Removable panels for ease of access for probing
- P0 to P2 connectors are installed
- Support for Rear Transition Modules (RTMs)
- Allows for a shelf manager to do health monitoring
- JTAG connector
- User setting of SYSRESET, NVMRO, etc.
- Onboard battery pack to provide the VBAT
- Vertical or Horizontal positioning on bench

Benefits

- Optional shelf manager supporting Tier 2 Health Management
- 750W AC Power supply
- Ease of access to board under development
- Electrical, mechanical, software, and system-level expertise in house
- · Full system supply from industry leader
- AS9100 and ISO9001 certified company





VTX980

The VTX980 is a single slot 3U VPX chassis for board bring-up and testing of 3U VPX modules. The chassis can accept a front and a rear module (5 HP or 10 HP). The panels on both the front and rear slots are removable for ease of probing and debugging. *The VTX980 can support conduction cooled modules per VITA 48.*

The VTX980 can be placed on bench in both horizontal and vertical positioning for ease of access.

Power Supply

The VTX980 Universal AC power supply provides 750W to the chassis. The chassis supplies all the necessary power (+12V, -12V, +5V, etc.) to the module in accordance with VITA 46 specifications.

The unit also comes with a battery pack which provides the VBAT to the module. The power to VBAT can be switched between the onboard battery pack and the power supply. A sense resistor is fitted to each rail so that a voltmeter can measure power consumption.

Cooling

Variable speed fans provide front and rear cooling to the module. Chassis can optionally be configured to accept a conduction cooled module with wedge-locks, with airflow cooling heatsink to keep wedge-lock junction at required temperature. (RTMs remain standard/air-cooled in this configuration.)

Backplane

The backplane provides all the necessary VITA 46 signals set by the user (NVMRO, SYSRESET, SYS_CON, driver the dual clock, etc.). All the connectors are installed P0 thru P6 and are routed from the front to the rear.

Health Monitoring

The dual IPMI bus is routed to an external VT007 bench-top shelf manager that monitors the VPX board sensors in compliance to VITA 46.11. The VT007 supports Tier 2 Health Management and can be ordered separately or as an option with VTX980.

JTAG

The backplane breaks-out the JTAG signals via a header connector to enable external connection of a JTAG probe.



Figure 1: VTX980 Chassis Front View



Figure 2: VTX980 Chassis Rear View





Figure 2: VTX980 Conduction Cooled

Chassis Layout





Figure 3: Chassis Layout - Front



Figure 5: Chassis Layout – Front Vertical







Figure 4: Chassis Layout - Rear



Figure 6: Chassis Layout - Rear Vertical

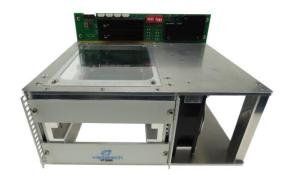


Figure 8: VTX980 Conduction Cooled

Specifications

Architecture		
Physical	Dimensions	Height: 3U
Standards		
VPX	Туре	VITA 46.0 Baseline Specification
Configuration		
Power	VTX980	750W AC universal
Environmental		See Ordering Options
Cooling		Right to left
Other		
MTBF	MIL Hand book 217-F@	① 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 Vada	aTech 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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VTX980 - ABC-D00-0HJ

A = Power supply	D = Card guide type *	
0 = 750W AC	0 = Standard (air cooled) 5HP, VITA 48.1 1 = Conduction cooled 5HP, VITA 48.1	
B = Shelf Manager (health monitoring)		H = Environmental
0 = No VT007 1 = VT007		See Environmental Specification
C = VPX Connector Type		J = Conformal Coating
0 = Standard 50u Gold Rugged 1 = KVPX Connectors 2 = High speed 50u Gold Rugged**		0 = No coating 1 = Humiseal 1A33 polyurethane 2 = Humiseal 1B31 acrylic

Notes: *Applies only to VPX module, RTM card guide is always standard/air-cooled **This option is not available for the KVXP connectors

Environmental Specification*

Option H	H = 0
Operating Temperature	-5°C to +55°C
Storage Temperature	-40°C to +85°C
Operating Vibration	0.04 g2/Hz max
Storage Vibration	20g
Humidity	95% non-condensing

Notes: *Please contact VadaTech Sales for other specification

Related Products



- Dual Kintex UltraScale™ XCKU115
- 16 GB of 64-bit wide DDR4 Memory to each FPGA
- Rear fibre I/O via VITA 66.5





- 6U VPX module Intel 5th Generation Xeon-D SoC
- PCle Gen3 x16 (dual x8 or quad x4)
- Quad 10GbE XAUI

Contact

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