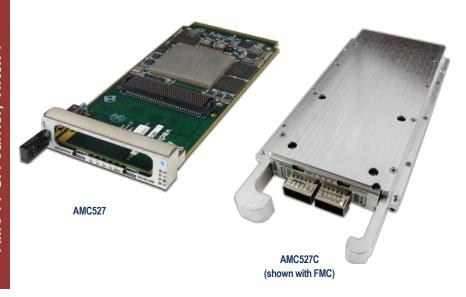


AMC527 / AMC527C - AMC FPGA Carrier for FMC, Virtex-7, QDR-II+



KEY FEATURES

- Xilinx Virtex-7 690T FPGA in FFG-1761 package
- Quad bank QDR-II+ memory (576 Mb total) and 1GB DDR3
- · Conduction cooled version available
- Single module, mid-size per AMC.0
- AMC Ports 4-11 are routed to FPGA per AMC.1, AMC.2 and AMC.4 (PCIe, SRIO, XAUI, etc. are FPGA programmable)
- AMC Ports 12-15 and 17-20 optionally routed to the FPGA
- Internal, external or backplane clock with onboard wide-band PLL
- IPMI 2.0 compliant

Advanced MC™

Benefits of Choosing VadaTech

- Compatible with industry standard FMCs
- Flexible clocking
- Fast local buffer (36-bit wide)
- BSP support and example code
- Strong mil/aero support
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

The AMC527 supports a single FMC per VITA-57, making it suitable for use with industry standard modules including VadaTech's broad range of ADC, DAC, RF and network interface FMCs. The on-board Virtex-7 690T is suitable for local signal processing and data reduction prior to transfer out via the backplane using PCle, SRIO or Ethernet.

The AMC ports 12-15 and 17-20 are optionally routed to the FPGA from the AMC connector, providing the user with flexibility to support custom high-bandwidth interconnects between compatible FPGA modules (depending on backplane capabilities). The FPGA is supported by FLASH memory for boot image storage, four banks of QDR-II+ for fast data buffering and a further bank of DDR3 for local data.

TCLKA-D are routed to the FPGA via an on-board clock and jitter cleaner while FCLK is routed directly. The module includes a very flexible clocking sub-system, supporting internal or external (backplane or FMC connector) clock source with internal PLL/jitter cleaner.

The AMC527 is available in both air-cooled (MTCA.0 and MTCA.1) and rugged conduction-cooled (MTCA.2 or MTCA.3) versions.

REFERENCE DESIGN

VadaTech provides a reference design implementation for our FPGAs complete with VHDL source code and configuration binaries. The reference design focuses on the I/O ring of the FPGA to demonstrate low-level operation of the interconnections between the FPGA and other circuits on the board and/or backplane. It is geared to prove out the hardware for engineering/factory diagnostics and customer acceptance of the hardware, but it does not strive to implement a particular end application.

AMC527

BLOCK DIAGRAM

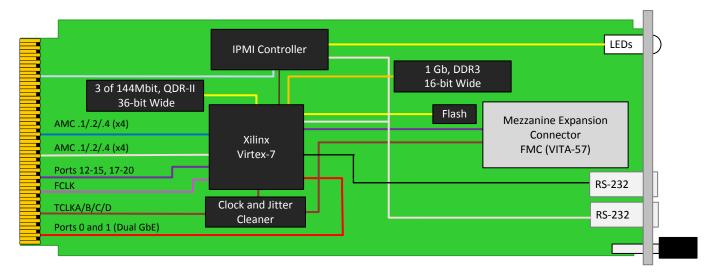


Figure 1: AMC527 Block Diagram

FRONT PANEL

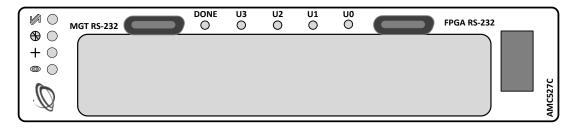


Figure 2: AMC527 Front Panel

www.vadatech.com the power of vision info@vadatech.com

AMC527C

BLOCK DIAGRAM

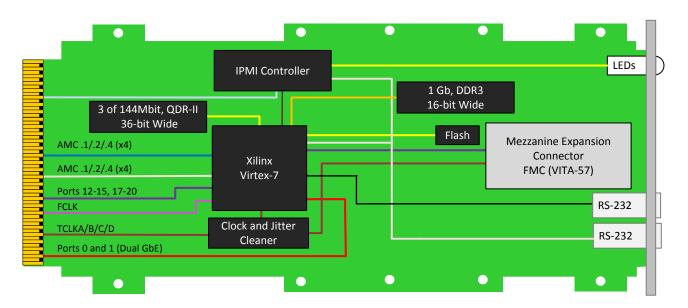


Figure 3: AMC527C Block Diagram

FRONT PANEL

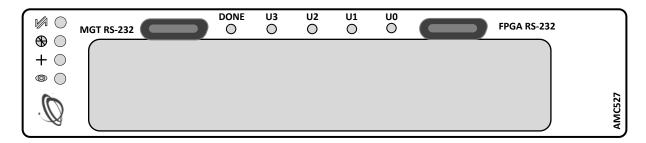


Figure 4: AMC527C Front Panel

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Doc No. 4FM737-12 Rev01

SPECIFICATIONS

Physical Dimensions Single module, mid-size (full-size optional) Width: 2.89' (73.5 mm) Depth 7.11" (180.6 mm) Type AMC FPGA Carrier Xilmx Virtex-7 device 432 Mb QDR-II (36-bit wide each) Single FMC slot Standards *** *** *** *** *** *** ***	Architecture			
Width: 2.89" (73.5 mm) Depth 7.11" (180.6 mm) Type AMC FPGA Carrier Xilinx Virtex-7 device 432 Mb QDR-II (36-bit wide each) Single FMC slot Standards AMC Type AMC.1, AMC.2, and AMC.4 (FPGA programmable) Module Management IPMI IPMI version 2.0 PCIe Lanes Dual x4/x8 via FPGA to AMC SRIO/Aurora Lanes Dual x4/x8 via FPGA to AMC Ethemet GbE Dual GbE via FPGA Configuration Power AMC.527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5" to 45" C (55"C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40" to +85"C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC.527); wedgelocks (AMC.527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1831 Acrylic (Optional) Humiseal 1831 Acrylic (Optional) Other MILH and 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		Dimonsions	Single module, mid size (full size entional)	
Type AMC FPGA Carrier Xilinx Virtex-7 device 432 Mb QDR-II (36-bit wide each) Single FMC slot Standards AMC Type AMC.1, AMC.2, and AMC.4 (FPGA programmable) Module Management IPMI IPMI IPMI version 2.0 PCIe Lanes Dual x4/x8 via FPGA to AMC SRIO/Aurora Lanes Dual x4/x8 via FPGA to AMC SRIO/Aurora Lanes Dual set via FPGA Configuration Power AMC.527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55° C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to 45° C Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MCT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating 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	•	Dimensions		
Type AMC FPGA Carrier Xilinx Virtex-7 device 432 Mb QDR-II (36-bit wide each) Single FMC slot Standards AMC Type AMC.1, AMC.2, and AMC.4 (FPGA programmable) Module Management IPMI IPMI version 2.0 PCIe Lanes Dual x4/x8 via FPGA to AMC SRIO/Aurora Lanes Dual x4 via FPGA to AMC Ethernet GbE Dual GbE via FPGA Configuration Power AMC527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55° C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85° C Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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			,	
A32 Mb QDR-III (36-bit wide each) Single FMC slot		AMO EDOA O'.		
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Module Management IPMI IPMI version 2.0 PCle Lanes Dual x4/x8 via FPGA to AMC SRIO/Aurora Lanes Dual x4 via FPGA to AMC Ethernet GbE Dual GbE via FPGA Configuration Power AMC527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55° C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85° C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527), wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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				
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SRIO/Aurora Lanes Dual x4 via FPGA to AMC Ethernet GbE Dual GbE via FPGA Configuration Power AMC527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85° C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC5277); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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		IPMI		
Ethernet GbE Dual GbE via FPGA Configuration Power AMC527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) 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		Lanes	Dual x4/x8 via FPGA to AMC	
Configuration Power AMC527 Carrier is ~30 W (without mezzanine) application specific	SRIO/Aurora	Lanes	Dual x4 via FPGA to AMC	
Power AMC527 Carrier is ~30 W (without mezzanine) application specific Environmental Temperature Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) 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	Ethernet	GbE	Dual GbE via FPGA	
Environmental Temperature Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet) Storage Temperature: -40° to +85° C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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	Configuration			
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Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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	Environmental	Temperature		
Vibration Operating 9.8 m/s² (1.0 G), 5 to 500Hz Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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				
Shock 30Gs on each axis Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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				
Relative Humidity 5 to 95 per cent, non-condensing Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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				
Front Panel Interface Connectors Front panel FMC, MGT RS-232, CPU RS-232 LEDs IPMI management control 4 user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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		Shock	30Gs on each axis	
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A user defined LEDs Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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	Front Panel	Interface Connectors	Front panel FMC, MGT RS-232, CPU RS-232	
Mechanical Hot swap ejector handle (AMC527); wedgelocks (AMC527C) Software Support Operating System Linux (consult VadaTech for other options) Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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		LEDs	IPMI management control	
Software Support Operating System Linux (consult VadaTech for other options) Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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			4 user defined LEDs	
Conformal Coating Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional) 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		Mechanical	Hot swap ejector handle (AMC527); wedgelocks (AMC527C)	
Humiseal 1B31 Acrylic (Optional) 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	Software Support	Operating System	Linux (consult VadaTech for other options)	
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	Conformal Coating		Humiseal 1A33 Polyurethane (Optional)	
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			Humiseal 1B31 Acrylic (Optional)	
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	Other			
Standards VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	MTBF	MIL Hand book 217-F @	TBD Hrs	
	Certifications	Designed to meet FCC,	Designed to meet FCC, CE and UL certifications where applicable	
Warranty Two (2) years	Standards	VadaTech is certified to I	both the ISO9001:2000 and AS9100B:2004 standards	
	Warranty	Two (2) years		

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), 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

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Doc No. 4FM737-12 Rev01

ORDERING OPTIONS

AMC527 - 0BC - DEF - GHJ

B = Ports 12-15 and 17-20

0 = To FPGA 1 = Not Routed

C = Front Panel Size

1 = Reserved

2 = Mid-size

3 = Full-size

4 = Reserved

5 = Mid-size, MTCA.1 (captive screw)

6 = Full-size, MTCA.1 (captive screw)

D = FPGA

0 = Reserved

1 = Reserved

2 = XC7VX690T

E = FPGA Speed

1 = Reserved

2 = High

3 = Highest

F = PCle Option

0 = No PCle

1 = PCle on ports 4 - 7

2 = PCle on ports 8 - 11

3 = PCle on ports 4 - 11

G = Clock Holdover Stability

0 = Standard (XO)

1 = Stratum-3 (TCXO)

H = Temperature Range

 $0 = \text{Commercial } (-5^{\circ} \text{ to } +55^{\circ} \text{ C})$

1 = Industrial (-20° to +70° C)

 $2 = Military (-40^{\circ} to +85^{\circ} C)$

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic

AMC527C - 0BC - DEF - GHJ

B = Ports 12-15 and 17-20

C = Ruggedization Level*

1 = Contact Vadatech

2 = Contact Vadatech

3 = Contact Vadatech

0 = To FPGA

0 = None

1 = Not Routed

D = FPGA

0 = Reserved

1 = Reserved

2 = XC7VX690T

E = FPGA Speed

1 = Reserved

2 = High

3 = Highest

F = PCle Option

0 = No PCle

1 = PCle on ports 4 - 7

2 = PCle on ports 8 - 11

3 = PCle on ports 4 - 11

G = Clock Holdover Stability

0 = Standard (XO)

1 = Stratum-3 (TCXO)

H = Temperature Range **

 $0 = \text{Commercial } (-5^{\circ} \text{ to } +55^{\circ} \text{ C})$

1 = Industrial (-20° to $+70^{\circ}$ C)

 $2 = Military (-40^{\circ} to +85^{\circ} C)$

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic



^{*}Ruggedization level is per the uTCA.2 and uTCA.3 specification.

^{**}Edge of module

RELATED PRODUCTS







VT899 Cube Chassis

FMC223 High Speed FMC for DAC

VT872 ½ ATR Short, 6 AMC Conduction Cooled Chassis

CONTACT US

VadaTech Corporate Office

198 N. Gibson Rd. Henderson, NV 89014 Email: info@vadatech.com Telephone: +1 702 896-3337 Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan Email: info@vadatech.com

Telephone: +886-2-2627-7655 Fax: +886-2-2627-7792

VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way, Ocean Village, Southampton, SO14 3JZ

Email: <u>info@vadatech.com</u> Telephone: +44 2380 381982 Fax: +44 2380 381983

