

# VT074

## Single slot chassis for AMC Modules



## Key Features

- Single slot chassis for an AMC module
- Option for AMC single-width or double-width
- Option for AMC panel size Extended, Full, or Mid-size
- Provides +12V and Management Power to the AMC Module
- Input power 16-38V DC
- Port 0 and 1 are routed as GbE to the back
- Ports 4-7 are routed to the OcuLink cable for external interface (i.e. from a PC as PCIe, jump from another chassis, etc.)
- Ports 8-11 are routed to a QSFP+ for optical link

## Benefits

- Low-cost test/dev board for AMC modules
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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# VT074

The VT074 is a single slot chassis which supports an AMC module in single-width or double-width with front panel Extended-size, Full-size, or Mid-size.

The Chassis input voltage is 16-36V DC and utilizes an isolated DC/DC converter to provide the necessary power to the AMC module. The chassis converts AMC Ports 0-1 as GbE to the rear of the chassis as 1000Base-. The chassis routes AMC Ports 4-7 or 8-11 to an OCuLink connector. This allows the module to interface to the PC or link up to another module. The chassis further routes AMC Port 4-7 or 8-11 to a QSFP+.

The VT074 chassis has right to left cooling. The chassis height is 1U and it would be installed into a 19" rack with brackets.



Figure 1: VT074



Figure 2: VT074 Front Panel View



Figure 2: VT074 Rear Panel View



Figure 2: VT074 Rear Panel View 2

## Block Diagram

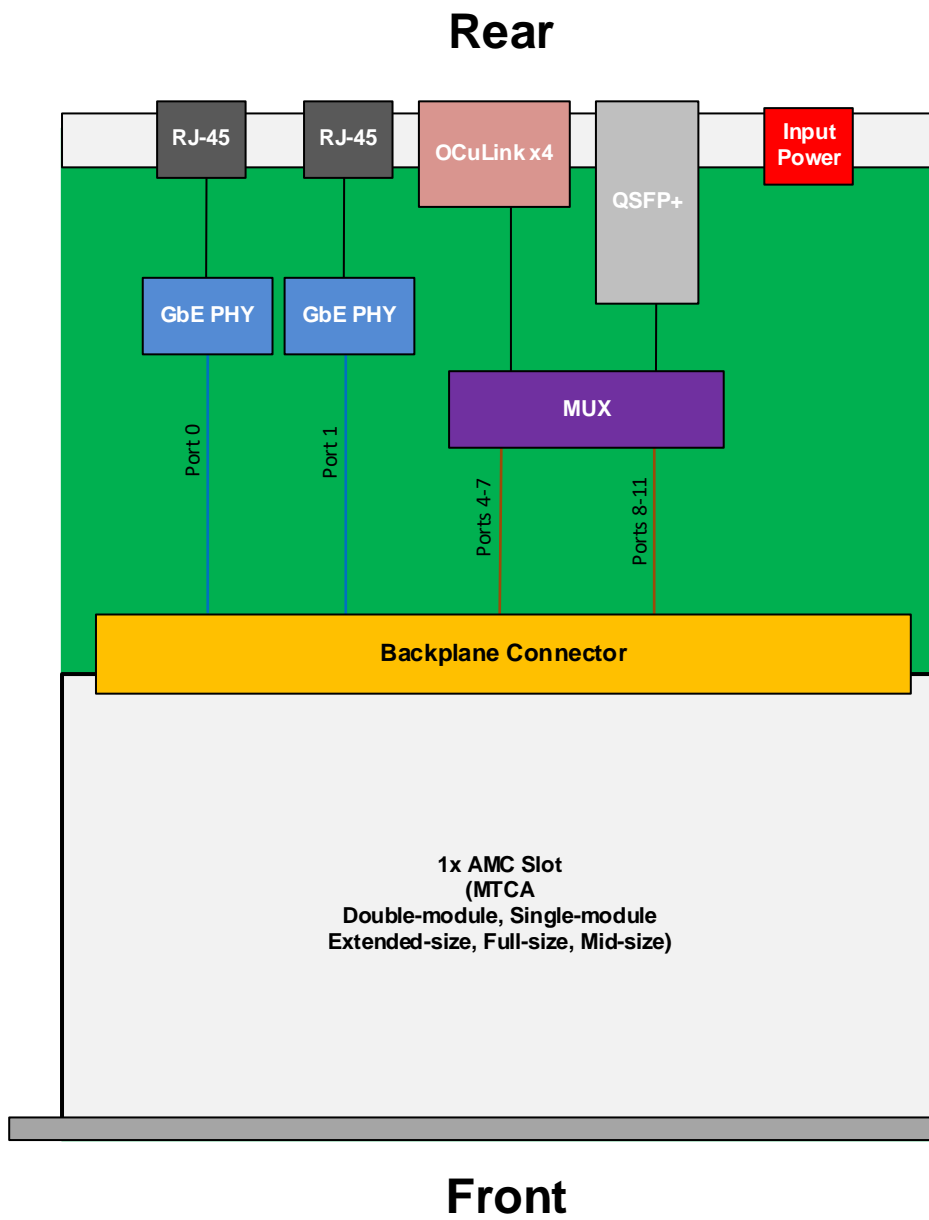


Figure 3: VT074 Functional Block Diagram

# Specifications

Architecture		
Physical	Dimensions	Width: 19" (484 mm)
		Length: 11" (280 mm)
		Height: 1.75" (45 mm)
Type	Backplane	Single slot
Standards		
AMC	PICMG	AMC.0
Configuration		
Power	VT074	16-38V DC, up to 120W for the AMC module
Environmental	Temperature	See <a href="#">Ordering Options</a>
		Storage Temperature: -40° to +90°C
	Vibration	Operating 9.8 m/s² (1G), 5 to 500 Hz on each axis
	Shock	Operating 30G each axis
Rear of the Chassis	Relative Humidity	5 to 95% non-condensing
	Interface Connectors	x2 RJ-45 for GbE
		QSFP+
		OCuLink
	LEDs	LNK/ACT for GbE
		Payload power
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	Two (2) years, see <a href="#">VadaTech Terms and Conditions</a>	

## 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

## VT074 – ABC-D00-0HJ

A = AMC Module Width	D = Ports 4-7 and 8-11 routing	
0 = Double-width 1 = Single-width	0 = 4-7 to OcuLink and 8-11 to QSFP 1 = 4-7 to QSFP+ and 8-11 to OcuLink	
B = AMC Panel Size		H = Temperature Range
0 = Extended (8HP) 1 = Full (6HP) 2 = Mid (4HP)		0 = Commercial 1 = Reserved
C = QSFP+ Transceiver		J = Conformal Coating
0 = None 1 = 40Gb (SR) 2 = 40Gb WDM (SR) 3 = 40Gb (LR 1km) 4 = Reserved 5 = Reserved		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

## Related Products

AMC596



- Xilinx Ultra Scale XCVU440 w/ QorIQ PPC2040
- 8 GB of DDR4 (single bank of 64-bits)
- 20 SERDES lanes optionally routed to Tongue 2

AMC750



- Processor AMC Intel® Xeon E5-2648L v4
- PCIe Gen 3 on Ports 4-7 and 8-11(AMC.1)
- x16 PCIe Gen 3 via Tongue 2, optional PCIe to Ports 12-15, 17-20

VT884



- Twelve mid-size single module AMC slots (option for double-width modules)
- Dual MicroTCA Carrier Hub (MCH)
- PinoutPlus™ support, 2nd tongue on all AMC slots

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