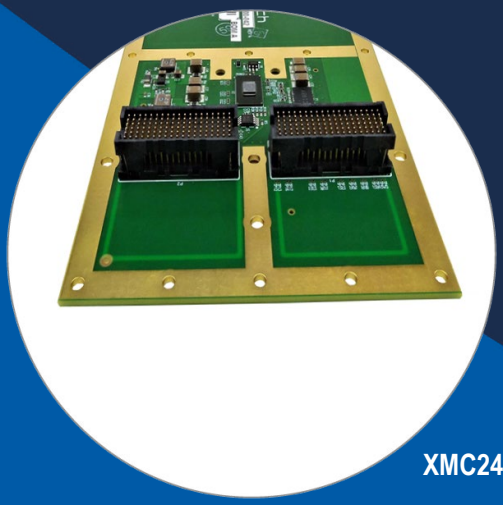
XMC248

XMC single 1/10GbE
10GBase-KR or 1000Base-BX



XMC248

Key Features

- Single 1/10GbE with PCIe x4 Gen3
- Rear I/O to the XMC P16 connector

Benefits

- 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

vadatech
THE POWER OF VISION

XMC248

The XMC248 has a single 1GbE or 10G Ethernet port going to the P16 connector of the XMC. The module could run as 10GBASE-KR or 1000BASE-BX.

The module is available in both air cooled and conduction cooled versions.

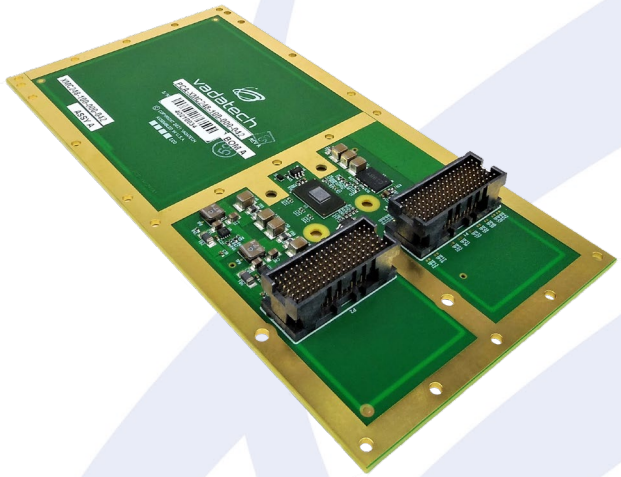


Figure 1: XMC248

Block Diagram

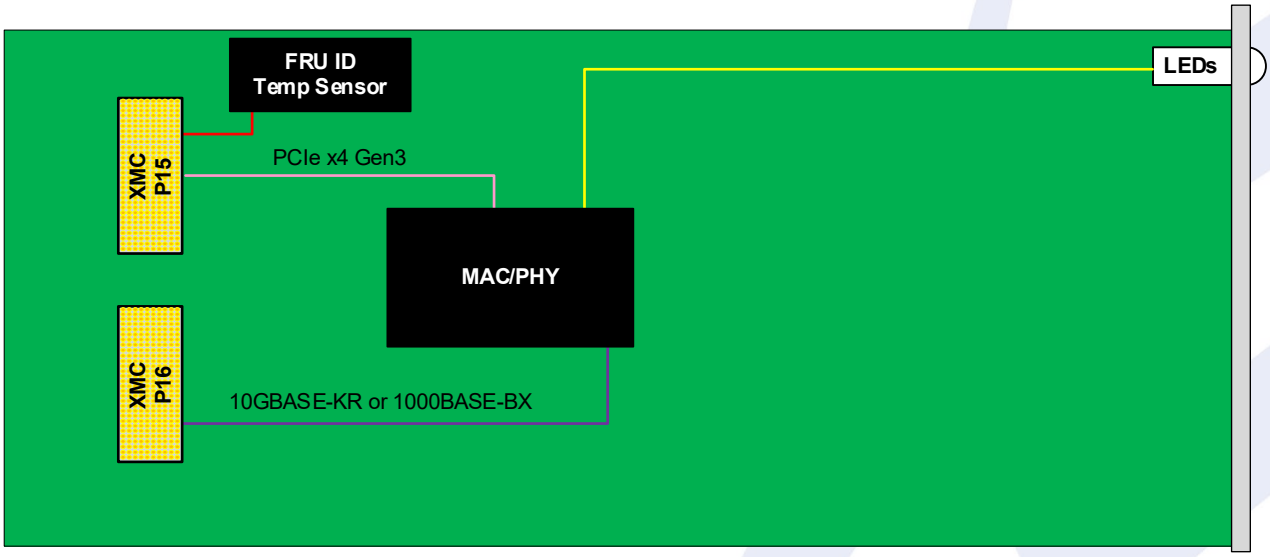


Figure 1: XMC248 Functional block diagram

Specifications

Architecture		
Physical	**Dimensions**	Single-Width, per VITA 42.0 specification
Type	**XMC 10GbE**	Single Port 1/10GbE
Standards		
XMC	**Type**	1/10GbE
Module Management	**Sensors**	FRU info and Temp sensor
Configuration		
Power	**XMC248**	2W
Environmental	**Temperature**	See Ordering Options and Environmental Spec Sheet
Front Panel	**Interface Connectors**	To P16 of XMC
	LEDs	LNK/ACT
Software Support	**Operating System**	Linux, Windows and VxWorks
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 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

XMC248 – AB0-000-0HJ

A = 10G/1G routed to Rear I/O Pins		
0 = Reserved 1 = TX+/- DP04 and RX+/- DP05 2 = Reserved 3 = Reserved		
B = XMC Connectors		**H = Environmental**
0 = VITA 42 1 = VITA 61		See Environmental Specification
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Environmental Specification

	Air Cooled		Conduction Cooled		
Option H	**H = 0**	**H = 1**	**H = 2**	**H = 3**	**H = 4**
Operating Temperature	AC1* (0°C to +55°C)	AC3* (-40°C to +70°C)	CC1* (0°C to +55°C)	CC3* (-40°C to +70°C)	CC4* (-40°C to +85°C)
Storage Temperature	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C3* (-50°C to +100°C)
Operating Vibration	V2* (0.04 g2/Hz max)	V2* (0.04 g2/Hz max)	V3* (0.1 g2/Hz max)	V3* (0.1 g2/Hz max)	V3 (0.1 g2/Hz max)
Storage Vibration	OS1* (20g)	OS1* (20g)	OS2* (40g)	OS2* (40g)	OS2* (40g)
Humidity	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing

Notes:

*Nomenclature per ANSI/VITA 47. Contact local sales office for conduction cooled (H = 2, 3, 4).

Related Products

VPX762

- 6U VPX module Xeon-D SoC (Skylake-D) 6th-Generation
- Single XMC site with I/O expansion going to P5/P6 per VITA46.9 Pin Field P5W1-P64s+X12d+X8d
- PCIe Gen3 x16 (bifurcation to dual x8 or quad x4)

VPX752

- 6U VPX module Intel 5th Generation Xeon-D SoC
- Single XMC site with I/O expansion going to P5/P6
- PCIe Gen3 x16 (dual x8 or quad x4)

VPX105

- 6U VPX module VITA 46.0 for dual PMC/XMC modules
- PCIe x8 to each XMC
- The XMC connector option with VITA 42.0 or VITA 61.0

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, Wenhu 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 | 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

DOC NO. 4FM737-12 REV 01 | VERSION 1.4 – NOV/21