XMC-E540

Dual-port 10GBASE-T Ethernet XMC Module



Features

- Intel® 10Gigabit Ethernet Controller X540
- Dual-port RJ-45 copper interface at 10G/1G/100Mbps
- IEEE 802.3an 10GBASE-T, IEEE 802.3 100/1000BASE-T compliant
- PCI Express v2.1 x1/x2/x4/x8
- VMDq1, VMDq and PCI-SIG SR-IOV virtualization

Specifications

Controller

Dual-port Intel® 10Gigabit Ethernet Controller X540, 10W TDP @ 110°C, $T_{j,Max}$

10G/1G/100Mbps copper PHYs integrated on-chip

Jumbo frames up to 15.5KB

TCP/UDP segmentation, IPv6 IP/TCP, IP/UDP receive checksum offload

FCoE Tx/Rx CRC offload, 256KB FCoE transmit segmentation

Host Interface

PCI Express v2.1 (5GT/s)

PCI Express X1, x2, x4, x8 lanes

Message Signaled Interrupts (MSI/MSI-X)

Connectivity

Dual RJ-45 ports

Operating System

Windows 7, Server 2003, Server 2008

Red Hat Enterprise Linux 6

Mechanical and Environmental

Form Factor	VITA 42.3 XMC standard with XMC.3 connector
	139mm x 74mm x 8.2mm
Operating Temp	0°C to 60°C
Storage Temp.	-40°C to 85°C
Rel. Humidity	95% (non-condensing)
Shock	20G peak-to-peak, 11ms duration, operating
Vibration	2Grms, 5-500Hz, each axis, operating
Power Consumption	Maximum 1.5A@5V 8.5W

Ordering Information

Modules

Model Number	Description/Configuration
XMC-E540	Dual-port 10GBASE-T 10Gigabit Ethernet XMC module

XMC-G460

Dual Display Graphics XMC Module with AMD/ATI E4690 GPU



Features

- AMD Radeon E4690 embedded GPU
- 512MB on-chip GDDR3 VRAM
- Dual independent displays (DVI+VGA or VGA+VGA)
- Up to PCI-Express x8 interface
- HDMI and RGB signals to rear

Specifications

Processor

AMD Radeon E4690 Graphics Controller

Supports DirectX 10.1 and OpenGL 3.3

Memory

Integrated in GPU

128-bit memory interface, 512MB GDDR3 video memory

Interface

PCI Express x1, x2, x4, x8

Pn4 (HDMI & RGB)

Display

Dual independent display support

DVI-I and DB-15 VGA port on front panel

Dual-link DVI

Two RGB channels to front, switchable to rear via Pn4

HDMI to rear via Pn4

Mechanical and Environmental

Form Factor	VITA 42.3 XMC Standard
	149mm x 74mm x 8.2mm
Operating Temp.	0°C to +55°C Convection Cooled
Storage Temp.	-40°C to +85°C
Rel. Humidity	95% (non-condensing)
Shock	20G peak-to-peak, 11ms duration, operating
Vibration	2Grms, 5-500Hz, each axis, operating
Power Consumption	Average 10.9W at 400MHz clock engine when running 3D Mark06

Ordering Information

Modules

Model Number	Description/Configuration
XMC-G460	Graphics XMC module

Note: Extended temperature version is available upon request

Note: All specifications are subject to change without further notice.

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