

Dual 10 Gigabit Ethernet XMC



Features

- Intel® 82599 Dual Port 10 Gigabit Ethernet Controller
- PCle x8 Gen.2 host interface
- Dual SFP+ connectors
- Compliant with VITA 42.0-2005, 42.3-2006 XMC specifications



Introduction

The MIC-3666 is a low power, dual-port 10 GbE XMC, with SFP+ pluggable modules for multi-mode and single- nrue liber media and is based on the Intel® 82599ES 10 Gigabit Ethernet controller. The XMC provides a high performance PCle x8 interface at 5 Gb/s per lane at an outstandin lov-power dissipation of less than 10W. Support for Intel®'s offloading and platform enhancement features yields maximum network throughput while preserving valuable CPU cycles for application processing.

The MIC-3666 features an Intel® 82599 which provides Intel® Virtualization Technology for Connectivity (Virtualization Wintual Machine Device Queues (VMDq) and PCI_SIG compliant Single Root I/O Virtualization (SR-IOV), helping to reduce I/O bottlenecks, boost throughput, and edical latency. Where virtualization is required, VMDqs improve performance by offloading the data-sorting burden from the virtual machine manager (VMM) to the network controller. The MIC-3666's specialized features include Layer 2 & 3 security with IPSec & LinkSec; Intel® I/OAT Acceleration Technology v3.0; VLAN tagging, stripping and packet in an arrangement of TCP, iSCSI, and Fiber Channel over Ethernet (FCoE) offload.

Specifications

XMC Connectivity	Connector	P15 assemblad,		
	Host interface	PCle x3 gen.2 @ 5Gbps/lane		
Controller	Controller	Intel® 82599ES dual 10GbE MAC/PHY		
	Virtualization Technologies	VMDg, VMD, SR-IOV		
	IP C	IPv4, iPv6		
	Queues	28RX, 128TX per port		
	Offloading	TCP, UDP, SCTP, FCoE		
		Linksec IEEE802.1ae (AES-128 Authorization./Encryption)		
	Security Acceleration	IPSec (AES-128, 1024 SA's)		
1/0	SFP+	2 sites with support for presence detect, status and ID EE	PROM	
	LEDs	Network Link, Activity		
Software	Linux	X86 Kernel 2.6.x		
	Windows	Server2008		
	Boot	PXE, iSCSI		
Power	Power Consumption	+3.3V	VPWR (+5V)	
	Does not include FOT	0.25A max	1.5A max	
	Transceivers	U.ZJA IIIdX	1.JA IIIdX	
Environment		Operating	Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F)	-40 ~ 80° C (-40 ~ 176° F)	
	Humidity	95 % @ 40° C, non-condensing	95 %@ 60° C, non-condensing	
Physical Characteristics	Dimensions (W x D)	74 x 149 mm (2.9" x 5.78")		
	Weight	0.104 kg (0.23 lbs)		
Compliance	IEEE Std 1386.1-2001 PMC specification			
	VITA 42.0-2005, 42.3-2006 XMC specifications			

Recommended Configurations

XMC Extension Board	CPU Board	
MIC-3312-A1E	MIC-3395, MIC-3396	

Ordering Information

Part Number Description
MIC-3666-AE XMC with dual SFP+ 10GbE interfaces



MIC-3666-AE