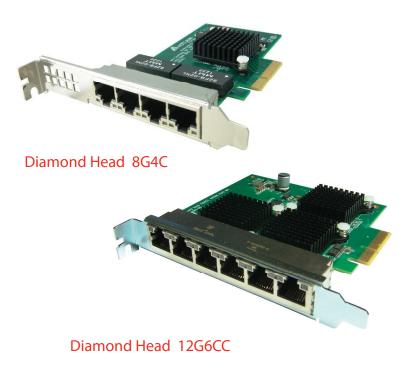


Quad-Port and Six-Port RJ-45 Gigabit Ethernet Network Adapter

HotLava Systems' quad-port and six-port copper RJ-45 Gigabit Ethernet NIC delivers high port density and low latency network connectivity in a low-profile, space saving design.



Benefits

- World class Intel-based Gigabit Ethernet technology
- Flexible I/O virtualization for port partitioning and quality of service (QoS) of up to 32 virtual ports
- Scalable iSCSI performance delivering cost-effective SAN connectivity
- CAT5e+ cable up to 100 meters
- Standard Intel drivers for easy installation without disruption of existing applications
- Wire speed bidirectional GbE performance
- Requires only one low-profile, half-length PCIe slot
- Ships with both full-height and low-profile mounting brackets

Highlights

- Four or six RJ-45 GbE ports in one adapter
- 8 or 12 Gbps of full-duplex bandwidth
- PCle Gen 2 (5GT/s), x4

Features

- Intel I350 Gigabit Ethernet Controller and drivers
- PCI-SIG SR-IOV support (Direct assignment)
 - » Up to 8 Virtual Functions per Port
- Virtual Machine Device queues (VMDq)
- » 8 VMs per port (one queue per VM)
- 8 Tx and 8 Rx queues per port
- Teaming Support
- IEEE 802.3ad (Link Aggregation Control Protocol)
- Intel I/O Acceleration Technology
 - » Direct Cache Access (DCA)
 - » Low Latency Interrupts
 - » MSI-X support
 - » Receive Side Scaling (for Windows)
- Preboot eXecution Environment (PXE)
- iSCSI remote boot
- VLAN Support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN Tags
- Intel PROSet Utility Support
- Advanced Packet Filtering
 - » 24 exact matched packets (unicast or multicast)
 - » 4096 -bit hash filter for unicast and multicast frames
 - » Promiscuous (unicast and multicast) transfer support mode
 - » Optional filtering of invalid frames

Product Specifications



Product Name

Number of ports Slot Type Speed Form Factor Power Consumption

Operating Systems Support

Windows Server 2003, 2008, 2012, 2016 Windows XP, Vista, 7, 8, 10 Linux 2.6x+ FreeBSD 7.2+ OpenBSD Novel ODI

Additional Features

One Intel I350 Ethernet Controller Dual On-chip Buffers • Default transmit 20KB / port • Default receive 36KB / port Switch Fault Tolerance Adaptive Load Balancing Interrupt Moderation Adapter Fault Tolerance Receive Side Scaling (for Windows) IPv6 offloading

Direct Cache Access (DCA) I/O Acceleration Technology DMA Coalescing

Environmental

Operating Temp Storage Temp Operating Humidity Storage Humidity Power Consumption RoHS 3, Directive 2015/863

Diamond head 8G4C

4 RJ45 x4, PCI-e Gen2 (5GT/s) 10/100/1000BASE-T Low-profile, 4.75 in x 2.19 in 5W Max

NetBSD VMWare ESX 4.x+ XenServer Microsoft Hyper-V Vyatta 6.3+ MikroTik RouterOS Nexenta 3.x+

IEEE 1588 protocol and 802.1AS implementation 802.3az - Energy Efficient Ethernet (EEE)

802.1Q VLAN Tagging 802.3x Flow Control 802.1p Class of Services 802.3ad Link Aggregation TCP and UDP Checksum Offload TCP Segmentation Offload Virtual Machine Device queues (VMDq) VLAN support with VLAN tag insertion, stripping and packet filtering for up to 4096 VLAN tags 9.5 KByte Jumbo Frames

0 to 55 ℃ -40 to 70 ℃ 5 to 85% non-condensing 90% non-condensing relative humidity at 35 ℃ Quad-Port: 5.0 Watts / Six-Port: 11.0 Watts Max Yes



Diamond Head 12G6CC

6 RJ45 x4, PCI-e Gen2 (5GT/s) 10/100/1000BASE-T Std Height, 4.38 in x 4.38 in 10W Max

Applications

Network Appliances

Unified Threat Management SDN Router / Switch Application Gateway High Availability / Redundancy

Servers

Link Aggregation High Availability / Redundancy Backup Networks Storage / Web / DNS Switch Bypass

Virtualization

Increased Network Bandwidth Multiple Dedicated VM Ports Hypervisor Bypass

Video over IP

Surveillance IPTV

SAN

iSCSI initiator Increased Throughput Switch Bypass

Traffic Generator

Increased Bandwidth Maximum Connectivity

Ordering Information

Product Name	Part Number
Diamond Head 8G4C	4C12440A3
Diamond Head 12G6CC	6C12470B1



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