

Dual-Port SFP Gigabit Ethernet Network Adapter

HotLava Systems' dual port SFP Gigabit Ethernet NIC enables servers and workstations to connect to the network with interchangeable optical or copper transceivers.



Sumatra 4G2S-350

Benefits

- Connect workstations and servers with multiple media choices:
 - » TwinAx Direct Attach cable up to 10 meters
 - » CAT5e cable up to 100 meters (with RJ45 copper transceiver)
 - » Fiber optic cable up to 120 kilometers
- 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
- Available with full-height and low-profile mounting brackets

Highlights

- Dual-port SFP GbE port in one low-profile, sub half-length adapter
- 4 Gbps of full-duplex bandwidth
- PCIe Gen 2 (5GT/s), x4
- Interchangeable with standard MSA compliant optical or copper transceivers
- TAA (Trade Agreement Act) Compliant

Features

- Intel I350-AM2 Gigabit Ethernet controller and driver
- Virtual Machine Device queues (VMDq)
 - » 8 pools (single queue)
- 8 Tx and 8 Rx queues
- 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	Sumatra 4G2S
Slot Type	PCI Express Gen 2 (5GT/s), x4
Media Connector	(2) SFP ports
Connector Type	LC connector
Network Topology	1000Base-T, 1000Base-SX, LX, EX, ZX, EZX, TwinAx DA
Form Factor	4.58 in x 2.73 in



Operating Systems Support

Windows Server 2003, 2008, 2012, 2016	NetBSD
Windows XP, Vista, 7, 8, 10	VMWare ESX 4.x+
Linux 2.6x+	XenServer
FreeBSD 7.2+	Microsoft Hyper-V
OpenBSD	Vyatta 6.3+
Novel ODI	MikroTik RouterOS
	Nexenta

Features

One Intel I350AM2 Ethernet Controller

Dual On-chip Buffers

- Default transmit 40KB / port
- Default receive 72KB / 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

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

Environmental

Operating Temp

Storage Temp

Operating Humidity

Storage Humidity

Power Consumption

RoHS 6 Complaint

0 to 55 °C with 50 LFM airflow

-40 to 70 °C

5 to 85% non-condensing

0 to 85% non-condensing

4.5W Max

Yes

Ordering Information

Product Name	Product Number
Sumatra 4G2S-350	2S124B0A1

Applications

Network Appliances

Unified Threat Management
SDN Router / Switch
Application Gateway
High Availability / Redundancy
DDOS Protection
Lightning Strike Isolation

Servers

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

Virtualization

Increased Network Bandwidth
Multiple Dedicated VM Ports

Video over IP

Surveillance
IPTV

SAN

iSCSI initiator
Increased Throughput

Traffic Generator

Increased Bandwidth
Maximum Connectivity