

[Network Interface Card RN2/RN4/RN6] Dual/Quad/Six-Port High Performance Gigabit Ethernet Adapters



Key Features:

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| • Two/four/six independent Gigabit Ethernet, Fast Ethernet and Ethernet Ports | • High Performance, reliability and low power consumption |
| • Ultra deep, 64KB packet bufer per channel lowers CPU utilization, avoids PCI-X congestion | • Dual high-speed acceleration per channel for advanced packet classification |
| • Hardware acceleration that offloads tasks from the host processor | • Link Aggregation and Load Balancing Failover Feature |
| • Jumbo Frame | • PCI Hotplug |
| • ACPI Wake On-LAN Support | |

Key Applications

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| • Storage Area Networks (SAN) | • Network-attached storage (NAS) |
| • File, Print, Proxy, E-mail & Web Servers | • Enterprise Network Servers |
| • Internet Service Providers/Web Hosting | • Firewalls, Gateways & Routers |
| • Appliance Servers | • Mixed NIC environments |
| • Network segmentation for network security purposes | |

ports each, for the 1Gb Ethernet ports (copper or fiber). There are also 2 slots, 3 ports each, for the 10Gb ports (copper, fiber, or RAST). Using 16U of rack space a Raptor solution is a 384-port GbE switch (of course the 16 ER1010 boxes could be 10km or 40km apart). Using 16U of rack space, Ether-Raptor Switches can also be configured with 32 10GbE ports and 352 GbE ports with unsurpassed port density.

Fully Interoperable

RN2/4/6 Gigabit adapters offer the most effective way to migrate to Gigabit Ethernet. The adapters are fully interoperable with existing Category 5 UTP backbone allowing a scalable upgrade to Gigabit Ethernet without replacing the existing network infrastructure.

Advanced Network Software Features

RN2/4/6 Gigabit adapters are supported by the advanced features of its innovative software suite. The suite includes increased fault tolerance, bi-directional load balancing, port aggregation, Jumbo Frame support, VLAN and server management software for increased bandwidth, scalability, reliability and network availability.

Service and Support

Raptor support is provided by IBM Global Services who support high-performance networking and connectivity solutions to customers worldwide.

Product Description

The RN2/4/6 Dual/Quad/Six-Port PCI-X adapters are 64bit/133MHz PCI-X network interface cards that contain Two/Four/Six independent Gigabit Ethernet ports on one PCI-X adapter. The cards are the ideal solution for a cost effective, instant performance boost over existing Category 5 UTP copper cabling for getting high-powered networking. The RN2/4/6 adapters are the ideal solution for implementing multiple network segments mission critical high-powered networking applications and environments within high performance servers. Raptor Gigabit adapters ease network congestion, simplify network management, and provide the highest server throughput available while minimizing CPU utilization. Two/Four/Six independent 10/100/1000 Gigabit ports provide users of data-intensive application with the highest levels of system performance together with extra redundancy.

Performance

The RN2/4/6's are faster and wider. With a 133MHz host PCI-X connection, the RN2/4/6 are faster. With a true 64-bit interface, the RN2/4/6 widen the network pipeline and allow higher throughput. Together, the 64-bit interface and 133MHz bus speed significantly reduce system overhead.

Configurations

An ER-1010 fully loaded has 24 1Gb Ethernet ports and six 10Gb ports. Its modular design provides flexibility with options for copper and fiber ports. There are 2 slots, 12

[RN2/RN4/RN6]



Technical Specifications

Interface Standard	PCI v2.2 32/64 bit, 33/66Mhz PCI-X v1.0 32/64 bit, 66/100/133Mhz
Bus Interface	PCI-X bus mastering, compatible with existing PCI bus
Dimensions	PCI short card; 4.2" (106.6mm) H x 6.6" (166.6mm) L
Weight	5.64 oz (160 grams)
PCI Voltage	+5V (Min 4.75V, Max 5.25V)
PCI Connector	+3.3V / 64 bits
Power Consumption	2.0A at +5V with all ports operating at 100 Mbps. 1.2A at +5V with all ports operating at 10 Mbps. 1.1A at +5V with no links at all ports.
Operating Humidity	0%-90%, non-condensing
Operating Temperature	0-50 degrees C (32-122 degrees F)
Operating Altitude	Up to 3,048 meters (10,000 ft)
Storage	-20-65 degrees C (-4-149 degrees F)
Advanced Software Features	Advanced software suite with increased Fault Tolerance, Bi-directional Load Balancing Port Agregation, Jumbo Frame Support and Server Management Software
Certifications	FCC Part 15, Subpart B Class B CE EN 55022, CE EN 55024, CE EN 60950

Ethernet Specifications

IEEE Standard/Network Topology	Gigabit Ethernet (1000 Base-T) Fast Ethernet (100 Base-TX) Ethernet (10 Base-T)
Simplex/Full Duplex Operation	Support both half duplex and full duplex operation in all operating speeds
Auto Negotiation	Auto-negotiates between full duplex and half duplex operations and between 10 Mbps and 100 Mbps speeds and full duplex 1000 Mbps
Data Transfer Rate	1000, 100, and 10 Mbps in half duplex mode per port 2000, 200 and 20 Mbps in full duplex mode per port
Connector	2/4/6 shielded RJ-45 female connectors
Cabling	10 Base-T: Category 3, 4 or 5 UTP; 100 Base-TX: Category 5 UTP; 1000 Base-T: Category 5 UTP (or better)
LEDS	Link, Activity 100 Mbps 1000 Mbps

Ordering Information

Part Number	Description
RN2	Dual Gigabit Server Adapter over Copper with Advanced TCP Offload Features
RN4	Quad Gigabit Server Adapter over Copper with Advanced TCP Offload Features
RN6	Six-Port Gigabit Server Adapter over Copper with Advanced TCP Offload Features

* Other names and brands may be claimed as the property of others.



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