

Gateway 64™

INDUSTRIAL SERIES ROUTER



The Gateway 64™ is a supercharged version of ImageStream's popular Gateway Router. Enhancements to the Gateway 64 include a dual bus backplane, a dual bus single board computer (SBC), 256 MB memory, and dual 10/100 ethernet ports.

The Gateway 64 includes a steel 4U rackmount chassis, high-performance processor, error-correcting memory, fixed flash disk with no moving parts, 10-slot backplane, and two 10/100 ethernet ports. The dual bus SBC features a fast Pentium 4 processor with high-performance DDR memory. The Gateway 64 uses the same chassis as the standard Gateway, with the same options for AC or DC power, and redundant AC or DC power.

The Gateway 64 backplane and SBC deliver up to 9 Gbps of aggregate bus bandwidth. The system provides a 1 Gbps 32-bit 33 MHz PCI bus just like the standard Gateway, and an 8 Gbps 64-bit PCI-X bus like those found in the Enterprise Router.

Each expansion slot accepts Industrial Series network adapters including support for multiport T1/E1, DS3/E3,

and OC3/STM1; 10/100 and gigabit ethernet (fiber or UTP); and single-port ADSL, basic rate ISDN (BRI), 56K dial-up modem, and 802.11a/b/g wireless. The Gateway 64 is guaranteed to deliver wire-speed routing performance with T1/E1, DS3/E3 and OC3/STM1 circuits.

The Gateway 64 takes advantage of ImageStream's Standard Architecture for Network Drivers (SAND™), which includes modular support for WAN protocols including PPP, Cisco HDLC, frame relay, and ATM. SAND also makes it easy to troubleshoot LAN and WAN connections by providing real-time port status and performance monitoring.

The Gateway 64 provides NAT firewall security, IPsec virtual private networking (VPN), quality of service (QoS), and VLAN tagging. It also provides VRRP for LAN failover, as well as RIP, OSPF and BGP4 for dynamic routing.

The Gateway 64 is used for edge and core aggregation where dynamic routing is deployed with multihomed T1/E1, DS3/E3 and OC3 circuits. It is ideal for midrange telco, ISP, and corporate infrastructure that requires a high level of performance, security, and scalability.

Highlights

- Replaces Cisco 3600, 3700, 7200 & 7500
- Replaces Juniper M5
- Runs on Linux®
- Dual PCI buses with 10 slots
- 9 Gbps aggregate bus bandwidth
- Two 10/100 ethernet ports
- Lockable front panel access door
- Menu-driven configuration
- Real-time performance monitoring
- Free 24/7 support for 1 year
- 1 year warranty on parts and labor
- 31-day performance guarantee
- Free software upgrades for life

Software

- Enterprise Linux™ router OS
- High-performance Linux kernel
- Scalable SAND™ architecture
- Menu-driven configuration
- Real-time status & performance monitoring
- Automated upgrades
- PPP, Cisco HDLC, frame relay & ATM
- ATM inverse multiplexing (IMA)
- RIP1, RIP2, OSPF, IS-IS & BGP4
- SNMP or NetFlow® monitoring
- IP firewall
- Bandwidth limiting
- Packet filtering
- Port forwarding
- Quality of Service (QoS)
- Interface bonding
- Concurrent bridging & routing
- GRE and CIPE tunneling
- Secure telnet (ssh)
- System scheduler
- IPSec VPN
- VRRP
- VLAN tagging
- 1:1 and 1:many NAT
- IPv6

Specifications

System Hardware:

- 4U steel rackmount chassis
- Intel Pentium 4 processor
- Dual PCI buses (1 Gbps + 8 Gbps)
- (4) 32-bit 33 MHz PCI slots
- (6) 64-bit 133 MHz PCI-X slots
- 256 MB ECC SDRAM
- Reliable fixed flash disk
- Dual 10/100 ethernet ports
- 3.5" floppy drive
- Serial console

Wire-Speed Performance:*

- Two OC3s
- Up to four DS3s or E3s
- Up to 56 T1s or E1s

Power Supply:

- AC Mains Voltage:
(Selectable as 115 VAC or 230 VAC)
- 115 V Setting: 85 to 132 VAC
- 230 V Setting: 185 to 243 VAC
- AC Mains Frequency: 47 to 63 Hz
- Power Output: 300 W

Dimensions:

- Height: 7" (17.8 cm)
- Width: 19" (48.3 cm)
- Depth: 19.8" (50.3 cm)
- Weight: 32 lbs. (14.5 kg)

Power Supply Options:

- Dual input redundant AC power supply
- -48 VDC power supply
- Redundant -48 VDC power supply

LAN Options:

- 1 and 2 port gigabit ethernet
- 1 and 4 port 10/100 ethernet
- 1 port token ring

WAN Options:

- 1 port ATM OC3
- 1 port POS OC3
- 1 port ATM DS3/E3
- 1 and 2 port DS3
- 1 and 2 port E3
- 1 and 2 port HSSI
- 1, 2, 4 and 8 port T1
- 1, 2, 4 and 8 port E1
- 1, 2, 4 and 8 port sync serial
- 1 port ADSL, BRI or 56K modem
- 802.11a/b/g wireless

Model Numbers:

- GR1000-64 - Base system

"No-Hassle" Return Guarantee:

For 31-days from the date of your purchase, ImageStream guarantees that its products will function as specified, and work in a manner that is compatible with specified equipment and services. During the guarantee period, if a product does not function as specified by ImageStream in a written application brief, sales quote, or product information sheet, and ImageStream cannot resolve the problem through its technical support process, ImageStream will authorize return of the equipment and refund the purchase price upon receipt. Terms apply; see below.

Terms of Warranty & Return Guarantee:

All provisions of the ImageStream Warranty and Return Guarantee are subject to terms that are posted on the ImageStream Web site. Please contact ImageStream to request copies of these documents.

* Notes on Wire-Speed Specifications:

Wire-speed performance is specified following the methods outlined in RFC 2544 using dual CPUs and a packet size of 512 bytes. ImageStream publishes wire-speed performance specifications for static routing simultaneously across all specified ports. Wire-speed performance is measured in the laboratory, and real-world performance may be affected by line conditions, interconnected equipment, and the router's software configuration.

ISiS ImageStream™

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Note: Terms and specifications are subject to change without notice.

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