

INDUSTRIAL SERIES

# Rebel Router™



The Rebel Router™ is ImageStream's entry-level router for DS3/E3, BGP, and demanding ethernet applications. The Rebel is guaranteed to route two DS3/E3 circuits or 100 Mb ethernet at wire speed.\*

The Rebel is a 1U 19-inch steel rackmount chassis with Intel CPU, high-performance memory, six 10/100/1000 ethernet ports, flash storage, and two PCI expansion slots. Each PCI slot accepts Industrial Series network cards with ethernet, sync serial, T1/E1, DS3/E3, analog FXO/FXS, BRI, PRI, and 56K dial-up interfaces. With these add-on cards, the Rebel can connect different data and voice networks using a wide range of communications standards.

The Rebel takes advantage of the ImageStream Linux™ router distribution, which provides support for NAT firewall, VPNs, Quality of Service (QoS), VLANs, VRRP failover, dynamic routing, packet filtering, bridging, peer-to-peer traffic control, lawful intercept, VoIP gateway,

Web filtering with Netsweeper, and more. The distribution also leverages ImageStream's powerful and scalable Inetics™ driver component architecture. Inetics supports WAN protocols including PPP, Cisco HDLC, frame relay, and ATM. Inetics includes SoftCell™ ATM & IMA, which supports best-in-class T1/E1 solutions that run *Any Port, Any Protocol.*™ Inetics even simplifies troubleshooting for LAN and WAN connections with real-time port status and performance monitoring.

The Rebel can be used as an Internet gateway, and in the network core or edge. It delivers superior performance and reliability in a low-profile package that works where most Cisco 2800, 3800, and 7200 routers are used. The Rebel is ImageStream's lowest cost router for high-speed multihomed networks, and it is ideal for many midrange routing applications.

## Highlights

- Lowest cost DS3/E3 router
- Replaces Cisco 2800, 3800, & 7200
- Six 10/100/1000 ethernet ports
- Routes 2 DS3/E3 ports at wire speed\*
- Routes 100 Mb ethernet at line rate\*
- 31-day performance guarantee
- 1 year warranty on parts and labor
- Free 24/7 support for 1 year
- Free software upgrades for life
- VoIP gateway & SoftPBX
- PowerCode™ OSS ready
- Runs on Linux®

## Best Support

The Rebel router includes a full year of free 24/7 technical support. When you consider total cost of ownership, ImageStream routers cost less up front and over time.

## Guaranteed Performance

Our 31-day performance guarantee ensures your router will function as promised. If your ImageStream router does not work as specified in writing, and our support team cannot correct the problem, you can return your router for a full refund of the purchase price. See our web site for details.



### Low Profile

The Rebel features a low-profile 1U rackmount chassis.



### Well Connected

The Rebel has six front panel 10/100/1000 ethernet ports, each with its own PCI Express bus.

### Cool Power

High-performance cooling fans and a copper sink provide ample cooling under demanding conditions.



### Room to Grow

Two expansion slots support up to 12 additional 10/100 ethernet ports or 16 T1/E1 ports.



**ISiS ImageStream**  
Leading the Router Revolution™

#### Power LED

The power LED shows the router is powered on.

#### USB Ports

Two USB ports are provided to support upcoming features.

#### Console Port

The console port is used to configure the router via modem or laptop.

#### Ethernet Ports

Six 10/100/1000 ports are located on the front panel for easy access.



#### Expansion Slots

Two expansion slots are used for add-on network cards.

#### RS232 Port

This async RS232 port can be used to connect external devices.

#### Power Switch

The power switch is located on the back panel for security.

## REBEL SPECIFICATIONS

Chassis: Steel 1U 19" rackmount  
Processor: 2 GHz Intel P4  
Memory: 256 MB DDR2  
Storage: 128 MB flash  
Network Ports: Six GigE UTP  
Management Port: Serial console

#### Performance

\*ImageStream Linux 4.4 or higher  
500,000+ PPS base CPU  
1,000,000+ PPS with CPU upgrade

#### Expansion Interface

(2) 32-bit 33 MHz PCI slots

#### Power Supply

Design: PFC  
AC Mains Voltage: 100 to 240 VAC  
AC Mains Frequency: 50 to 60 Hz  
Power Output: 250 W

#### Dimensions

Height: 1.75 inches (44 mm)  
Width: 19 inches (483 mm)  
Depth: 15.25 inches (387 mm)  
Weight: 13 lbs. (5.9 kg)  
Shipping Weight: 18.4 lbs. (8.3 kg)

#### Memory Options

512 MB, 1 GB, 2 GB or 4 GB

#### LAN Card Options

1, 2, and 4-port gigabit ethernet

#### WAN Card Options

1 and 2-port DS3/E3 or HSSI  
1-port ATM DS3/E3  
1-port channelized DS3  
1, 2, 4 and 8-port serial, T1 or E1  
1-port basic rate ISDN (BRI)  
1-port 56 K modem

#### Voice Card Options

1 to 4-port FXO/FXS  
1, 2 & 4-port ISDN BRI  
1, 2 & 4-port T1/E1 PRI

#### Power Supply Option

-48 V DC

#### Software

- ImageStream Linux™
- High-performance kernel
- Scalable Inetics™ platform
- Menu-driven configuration

- PowerCode™ BMU function
- VoIP gateway & SoftPBX
- Web caching
- Web filtering with Netsweeper
- Intrusion detection & prevention
- On-line & off-line upgrades
- Local and remote logging
- Real-time monitoring
- Quality of Service (QoS)
- Bandwidth limiting
- Packet filtering
- Port forwarding
- Packet processing by PVC or DLCI
- Peer-to-peer traffic control
- System scheduler
- PPP, Cisco HDLC, and frame relay
- MLPPP & MLFR
- Multilink DSL aggregation
- PPPoE & PPPoA client & server
- SoftCell™ ATM & IMA
- CEF-compatible bonder
- RIP, OSPF, IS-IS & BGP
- SNMP or NetFlow® accounting
- NAT firewall (1:1 & 1:many)

- NTP clock synchronization
- T1/E1 drop & insert
- LAN and WAN bridging
- Concurrent bridging & routing
- Secure telnet (ssh v.2)
- L2TP tunneling (LNS & LAC)
- GRE, IPsec & CIPE tunneling
- Remote RADIUS
- TACACS+
- DHCP client & server
- IPsec & SSL VPNs
- VRRP router failover
- Lawful intercept
- VLAN tagging
- IPv6

**ImageStream**  
Leading the Router Revolution™

**800.813.5123**  
[www.imagestream.com](http://www.imagestream.com)  
**1.574.935.8484**

\* See ImageStream's Web site for details on wire-speed specs. Terms and specs are subject to change without notice.

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