



Advanced Network Routers

Model: ERPro-8, ER-8, ERPoe-5, ERLite-3

Sophisticated Routing Features

Advanced Security, Monitoring, and Management

High-Performance Gigabit Ports





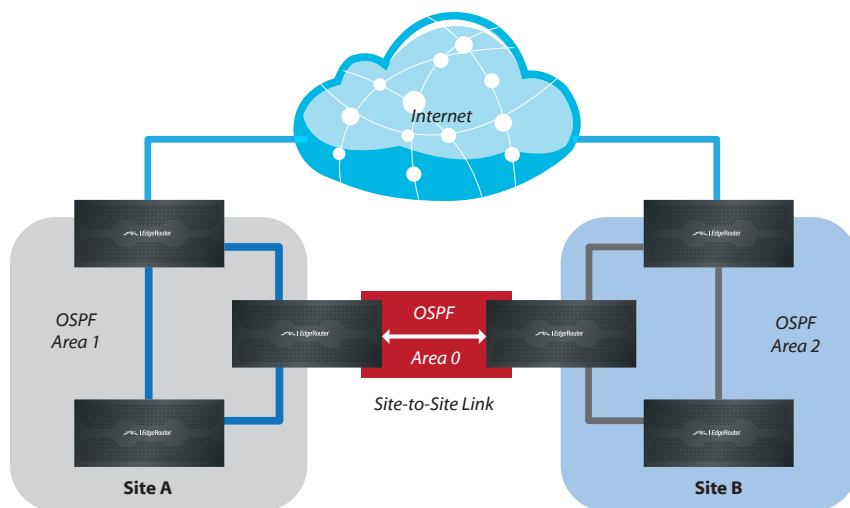
Advanced Routing Technology for the Masses

Introducing the EdgeRouter™ from Ubiquiti Networks™, part of the EdgeMAX® platform. EdgeRouters combine carrier-class reliability with enterprise-level features in a compact and affordable unit.

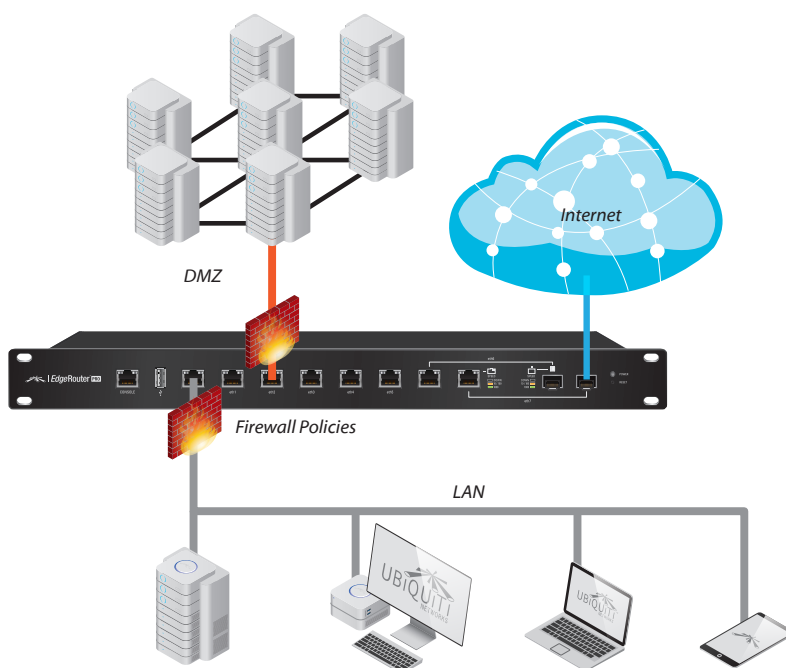
The EdgeRouter PoE and EdgeRouter Lite models are the world's first economical router capable of routing up to 1 million packets per second.

Available in a rackmountable form factor with eight functional ports, the EdgeRouter Pro and 8-Port EdgeRouter models are even faster, capable of routing up to 2 million+ packets per second.

Powered by a proprietary and intuitive graphical interface, EdgeOS™, EdgeRouters can easily be configured for routing, security, and management features required to efficiently run your network. For advanced network professionals, an integrated CLI is available for quick and direct access using familiar commands.



Typical Service Provider Deployment



Example of Enterprise Deployment with SFP Connection to the Internet

Manage Your Network

DHCP Server Set up multiple DHCP servers to assign IP ranges in different subnets on the different interfaces. Easily control dynamic and static IP addressing for your network devices.

Monitoring Tools Conveniently track network activity and devices from tools such as *Ping*, *Trace*, *Discover*, *Packet Capture*, and *Log Monitor*.

User Accounts Manage access to the EdgeRouter using unique administrator and operator accounts.

Secure Your Network

Firewall Policies Organize the rules you apply in the order you specify.

Firewall Groups Apply the policies to groups filtered by IP address, network address, or port number.

NAT Rules The EdgeRouter changes packet addressing based on your customized source and destination NAT rules.

Direct Traffic Flow

Interfaces Each Gigabit port functions as an independent interface. You can also configure Virtual Local Area Network (VLAN) interfaces for network segmentation.

Routing Configure static routes and dynamic routing protocols to effectively manage the routes used by the EdgeRouter.

With these capabilities and more, the EdgeRouter provides the centralized control you need to optimize the performance and reliability of your network.

Edge Router[™]

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Edge Router™

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Edge Router™

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clear CUI System

Welcome to Edge01!
root@edge01 login: ubuntu
Password:
Last login: Fri Aug 10 18:12:46 PDT 2012 on pts/0
linux ubnt 2.6.32-13-CMT #1 SMP Thu Jul 26 18:12:05 PDT 2012 x86_64
Welcome to Edge01!
root@ubuntu-demos-0 ~#
add delete ping reset terminal
clear disconnect reboot restart traceroute
configure generate release set tracertool
connect initial-setup remove show watchdog
copy no rename shutdown
copy ping route cliopt

root@ubuntu-demos-0 ~#
Available configurations:
add Add an object to a service
add help Click system information
configure Enter configure mode
connect Establish a connection
copy Copy data
debug Enable debugging of specified routing protocol
delete Delete a file
disconnect Take down a connection
generate Generate an object
initial-setup Enter initial configuration dialog
no Disable a revent operational variable
ping Send Internet Control Message Protocol (ICMP) echo request
ping help Send IPv6 Internet Control Message Protocol (ICMPv6) echo request
quit Return the system
release Release specified variable
remove Remove an object from service
rename Re-name something
reset Reset specified variable
restart Restart a service
restart help Restart a service
set Set system or shell options

```

# Models

## EdgeRouter PRO

Model: ERPro-8

- (6) Gigabit routing ports
- (2) Gigabit RJ45/SFP combination ports
- 2 million+ packets per second for 64-byte packets
- 8 Gbps for packets 512 bytes or larger in size
- Rackmountable



Front Panel



Back Panel

## 8-Port EdgeRouter

Model: ER-8

- (8) Gigabit routing ports
- 2 million packets per second for 64-byte packets
- 8 Gbps for packets 512 bytes or larger in size
- Rackmountable



Front Panel



Back Panel

# Models

## EdgeRouter PoE

Model: ERPoe-5

- (5) Gigabit routing ports
- (5) PoE configurable ports
- Supports 24V or 48V\* PoE
- (3) ports configurable for switching
- 1 million packets per second for 64-byte packets



Front Panel



Back Panel

## EdgeRouter Lite

Model: ERLite-3

- (3) Gigabit routing ports
- 1 million packets per second for 64-byte packets
- Silent, fanless operation
- Compact, durable metal casing



Front Panel



Back Panel

\* 48V available when using 48VDC Power Adapter (not included).



## Software Specifications

| EdgeOS                  |                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface/Encapsulation | Ethernet<br>802.1q VLAN<br>PPPoE<br>GRE<br>IP in IP<br>Bridging<br>Bonding (802.3ad)                                                                          |
| Addressing              | Static IPv4/IPv6 Addressing<br>DHCP/DHCPv6                                                                                                                    |
| Routing                 | Static Routes<br>OSPF/OSPFv3<br>RIP/RIPng<br>BGP (with IPv6 Support)<br>IGMP Proxy                                                                            |
| Security                | ACL-Based Firewall<br>Zone-Based Firewall<br>NAT                                                                                                              |
| VPN                     | IPSec Site-to-Site and Remote Access<br>OpenVPN Site-to-Site and Remote Access<br>PPTP Remote Access<br>L2TP Remote Access<br>PPTP Client                     |
| Services                | DHCP/DHCPv6 Server<br>DHCP/DHCPv6 Relay<br>Dynamic DNS<br>DNS Forwarding<br>VRRP<br>RADIUS Client<br>Web Caching<br>PPPoE Server                              |
| QoS                     | FIFO<br>Stochastic Fairness Queueing<br>Random Early Detection<br>Token Bucket Filter<br>Deficit Round Robin<br>Hierarchical Token Bucket<br>Ingress Policing |
| Management              | Web UI<br>CLI (Console, SSH, Telnet)<br>SNMP<br>NetFlow<br>LLDP<br>NTP<br>UBNT Discovery Protocol<br>Logging                                                  |

## Hardware Specifications

| Model: ERPro-8                   |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| Dimensions                       | 484 x 164 x 44 mm (19.06 x 6.46 x 1.73 in)                               |
| Weight                           | 2.3 kg (5.07 lb)                                                         |
| Max. Power Consumption           | 40 W                                                                     |
| Power                            | Internal AC/DC Power Adapter, 60 W (24V, 2.5A)                           |
| Power Input                      | 110 - 240VAC                                                             |
| Button                           | Reset                                                                    |
| LED                              | Power                                                                    |
| Processor                        | Dual-Core 1 GHz, MIPS64 with Hardware Acceleration for Packet Processing |
| System Memory                    | 2 GB DDR3 RAM                                                            |
| On-Board Flash Storage           | 4 GB                                                                     |
| Certifications                   | CE, FCC, IC                                                              |
| Rack-Mount                       | Yes                                                                      |
| Operating Temperature            | -10 to 45° C (14 to 113° F)                                              |
| Operating Humidity               | 10 - 90% Non-Condensing                                                  |
| Layer 3 Forwarding Performance   |                                                                          |
| Packet Size: 64 Bytes            | 2,400,000 pps                                                            |
| Packet Size: 512 Bytes or Larger | 8 Gbps (Line Rate)                                                       |
| LEDs Per Port                    |                                                                          |
| Serial Console Port              |                                                                          |
| Data Ports                       | Speed/Link/Activity                                                      |
| Networking Interfaces            |                                                                          |
| Serial Console Port              | (1) RJ45 Serial Port                                                     |
| Data Ports                       | (6) 10/100/1000 RJ45 Ports<br>(2) 10/100/1000 RJ45/SFP Combination Ports |



# EdgeRouter™

## Hardware Specifications

| Model: ER-8                      |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Dimensions                       | 484 x 164 x 44 mm (19.06 x 6.46 x 1.73 in)                                 |
| Weight                           | 2.3 kg (5.07 lb)                                                           |
| Power                            | 35 W                                                                       |
| Power Method                     | Internal AC/DC Power Adapter, 60 W (24V, 2.5A)                             |
| Power Supply                     | 110 - 240VAC                                                               |
| Button                           | Reset                                                                      |
| LED                              | Power                                                                      |
| Processor                        | Dual-Core 800 MHz, MIPS64 with Hardware Acceleration for Packet Processing |
| System Memory                    | 2 GB DDR3 RAM                                                              |
| On-Board Flash Storage           | 4 GB                                                                       |
| Certifications                   | CE, FCC, IC                                                                |
| Rack-Mount                       | Yes                                                                        |
| Operating Temperature            | -10 to 45° C (14 to 113° F)                                                |
| Operating Humidity               | 10 - 90% Non-Condensing                                                    |
| Layer 3 Forwarding Performance   |                                                                            |
| Packet Size: 64 Bytes            | 2,000,000 pps                                                              |
| Packet Size: 512 Bytes or Larger | 8 Gbps (Line Rate)                                                         |
| LEDs Per Port                    |                                                                            |
| Serial Console Port              |                                                                            |
| Data Ports                       | Speed/Link/Activity                                                        |
| Networking Interfaces            |                                                                            |
| Serial Console Port              | (1) RJ45 Serial Port                                                       |
| Data Ports                       | (8) 10/100/1000 Ethernet Ports                                             |



## Hardware Specifications

| Model: ERPoe-5                   |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| Dimensions                       | 200 x 90 x 30 mm (7.87 x 3.54 x 1.18 in)                                                       |
| Weight                           | 360 g (12.7 oz)                                                                                |
| Max. Power Consumption           | 60 W                                                                                           |
| Power                            | 24VDC, 2.5A Power Adapter (Included)                                                           |
| Power Input                      | 24VDC Input (Supported Range: 18 to 26VDC)<br>or<br>48VDC Input (Supported Range: 38 to 54VDC) |
| Button                           | Reset                                                                                          |
| Processor                        | Dual-Core 500 MHz, MIPS64 with<br>Hardware Acceleration for Packet Processing                  |
| System Memory                    | 512 MB DDR2 RAM                                                                                |
| On-Board Flash Storage           | 2 GB                                                                                           |
| Certifications                   | CE, FCC, IC                                                                                    |
| Wall-Mount                       | Yes                                                                                            |
| Operating Temperature            | -10 to 45° C (14 to 113° F)                                                                    |
| Operating Humidity               | 10 - 90% Non-Condensing                                                                        |
| Layer 3 Forwarding Performance   |                                                                                                |
| Packet Size: 64 Bytes            | 1,000,000 pps                                                                                  |
| Packet Size: 512 Bytes or Larger | 3 Gbps (Line Rate)                                                                             |
| LEDs Per Port                    |                                                                                                |
| Serial Console Port              | Power                                                                                          |
| Data Ports                       | PoE, Speed/Link/Activity                                                                       |
| PoE Configurable Per Port        |                                                                                                |
| Serial Console Port              | N/A                                                                                            |
| Data Ports                       | Off/24V/48V*                                                                                   |
| Networking Interfaces            |                                                                                                |
| Serial Console Port              | (1) RJ45 Serial Port                                                                           |
| Data Ports                       | (2) 10/100/1000 Ethernet Router Ports<br>(3) 10/100/1000 Ethernet Router/Switch Ports          |

| PoE with 24VDC Power Adapter                   |              |
|------------------------------------------------|--------------|
| PoE Out Voltage Range                          | 22-24VDC     |
| Max. PoE Wattage Per Data Port                 | 11.5 W (24V) |
| Max. PoE Wattage Combined for All 5 Data Ports | 50 W         |
| PoE Method                                     | Passive      |

| PoE with 48VDC Power Adapter (Not Included)    |                          |
|------------------------------------------------|--------------------------|
| PoE Out Voltage Range                          | 22-24VDC / 45-48VDC      |
| Max. PoE Wattage Per Data Port                 | 11.5 W (24V), 23 W (48V) |
| Max. PoE Wattage Combined for All 5 Data Ports | 50 W                     |
| PoE Method                                     | Passive                  |

\* 48V available when using 48VDC Power Adapter (not included).

# EdgeRouter™ LITE

## Hardware Specifications

| Model: ERLite-3                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Dimensions                       | 200 x 90 x 30 mm (7.87 x 3.54 x 1.18 in)                                   |
| Weight                           | 345 g (12.17 oz)                                                           |
| Max. Power Consumption           | 7 W                                                                        |
| Power                            | 12VDC, 1A Power Adapter (Included)                                         |
| Power Input                      | 9 to 24VDC Supported Voltage Range                                         |
| Button                           | Reset                                                                      |
| Processor                        | Dual-Core 500 MHz, MIPS64 with Hardware Acceleration for Packet Processing |
| System Memory                    | 512 MB DDR2 RAM                                                            |
| On-Board Flash Storage           | 2 GB                                                                       |
| Certifications                   | CE, FCC, IC                                                                |
| Wall-Mount                       | Yes                                                                        |
| Operating Temperature            | -10 to 45° C (14 to 113° F)                                                |
| Operating Humidity               | 10 - 90% Non-Condensing                                                    |
| Layer 3 Forwarding Performance   |                                                                            |
| Packet Size: 64 Bytes            | 1,000,000 pps                                                              |
| Packet Size: 512 Bytes or Larger | 3 Gbps (Line Rate)                                                         |
| LEDs Per Port                    |                                                                            |
| Serial Console Port              | Power                                                                      |
| Data Ports                       | Speed/Link/Activity                                                        |
| Networking Interfaces            |                                                                            |
| Serial Console Port              | (1) RJ45 Serial Port                                                       |
| Data Ports                       | (3) 10/100/1000 Ethernet Ports                                             |



All specifications in this document are subject to change without notice.

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