ESR-9850

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

300Mbps Wireless N Router with Gigabit

Wirelessly Share an Internet Connection



2.4GHz

b g n

Take advantage of the fastest wireless networking for your home or small home office. The ESR-9850 300Mbps Wireless N Router with Gigabit was designed with range and speed in mind. With expanded bandwidth, multiple users can wirelessly go online, make large file transfers, print to networked printers, and stream multimedia - at the same time. For larger homes or offices, the ESR-9850 Router is a perfect choice to connect everyone together and to the Internet

Supports the latest industry standard wireless data encryption to protect your data and networking activity - all with a push of a button.

With the included Installation Wizard and advanced push-button setup, you will be up and running and on the Internet in minutes.

One-Touch Setup

WDS

Power Saving

WEP, WPA WPA2

WiFi Multi media

HACKER SHIELD

Key Differentiators

WIRELESS 802.11N TECHNOLOGY

The most advanced wireless networking technology for the best range and speed

GIGABIT ETHERNET SWITCH

Eliminates bottlenecks between wired and wireless devices and provides super-fast connectivity between wired devices

SMARTNAT

Ensures high performance when using P2P applications

MULTIPLE SSID

Allows media streaming to be segmented from regular data networking

Create a separate SSID for Guest Access

RANGE EXPANDER FEATURE

Extends the range of Wi-Fi networks

SECURITY & MANAGEMENT

Secure Push-Button Setup

Policy Based Parental Control for safe browsing

Power saving management (Green Technology)

Auto Firmware Recovery

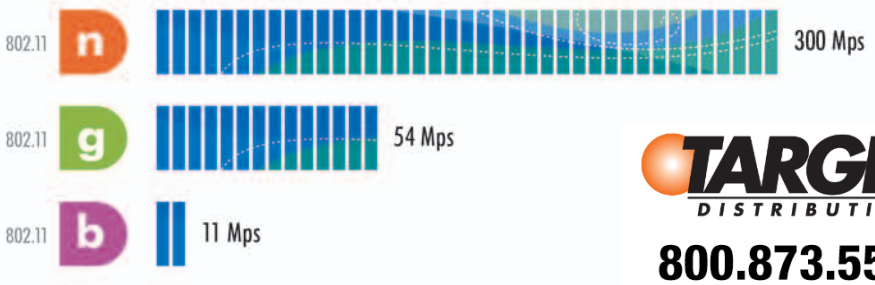
Wi-Fi Protected Access (WPA2/WPA)

Powerful SPI Firewall

Wireless MAC Address Filtering

REMOVEABLE AND UPGRADEABLE ANTENNAS

Wireless Speed Comparison



TARGET DISTRIBUTING
800.873.5528
WWW.TARGETD.COM

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range can vary depending on many factors including network conditions, environmental factors, distance between devices, radio interference in the operating environment, and mix of devices in the network

EnGenius®
www.engeniustech.com

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Technical Specifications

Specifications may change without notice.

HARDWARE SPECIFICATION

MCU	RT3052, 384MHz embedded RF/MAC/BBP Gigabit: Realtek 8366SR/RB
Memory	32MB SDRAM (16 + 16; enhanced performance)
Flash	4MB
Physical Interface	WAN: One 10/100/1000 Fast Ethernet RJ-45 LAN: Four 10/100/1000 Fast Ethernet RJ-45 Rest button Power Jack WPS (WiFi Protected Setup) Button
LEDs Status	Power Status WAN (Internet connection) LAN1~LAN4 WLAN (Wireless connection)
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC) Device: 12V/1A

RF SPECIFICATION

Frequency Band	2.400~2.484 GHz
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operation Channels	11 for North America, 14 for Japan, 13 for Europe

Wireless Settings

Wireless Mode - 11b/ 11g /11n (Draft 2.0)
Channel Selection (Setting varies by Country)
Channel Bandwidth (Auto, 20Mhz, 40Mhz)
Transmission Rate
-11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps

	Guard Interval 800ns		Guard Interval 400ns	
MCS Index	20MHz (Mbps)	40MHz (Mbps)	20MHz (Mbps)	40MHz (Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90
5	52	108	57.8	120
6	58.5	121.5	65	135
7	65	135	72.2	157.5
8	13	27	14.4	30
9	26	54	28.9	60
10	39	81	43.3	90
11	52	108	57.8	120
12	78	162	86.7	180
13	104	216	115.6	240
14	117	243	130	270
15	130	270	144.4	300

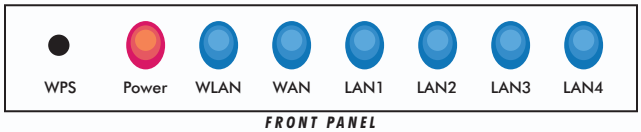
Receive Sensitivity (Typical)	IEEE802.11n(2RX) (Draft 2.0) MCS0/8 @ -91dBm • MCS7/15@ -74dBm IEEE802.11g (2RX) 6Mbps@ -92dBm • 54Mbps@ -75dBm IEEE802.11b (1RX) 1Mbps@ -93dBm • 11Mbps@ -91dBm
Available Transmit Power	IEEE802.11n (Draft 2.0) MCS 0~15@ typical 16 dBm IEEE802.11g 6~54 Mbps@ typical 16 dBm IEEE802.11b 1, 11Mbps@ typical 17 dBm
Antenna *2	Peak Gain = 2 dBi

SOFTWARE FEATURES

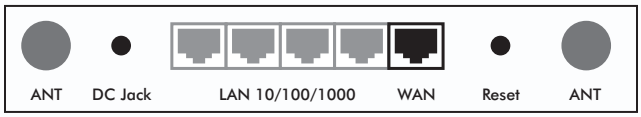
Router and Gateway	
Topology	Infrastructure
Operation Mode	AP/ Router/ WDS AP/Repeater
LAN	DHCP Server • Static IP • DNS • UPNP
WAN	Static IP DHCP Client PPPoE PPTP Clone MAC address DNS Relay DDNS-8 Verified Services Support
Router	NAT/ NAPT Static Routing- RIPv2 Dynamic Routing Virtual server mapping IP address mapping Port Forwarding Port Triggering MAC address Filtering ALG (Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)
Firewall	Block ICMP Ping SPI (Stateful Packet Inspection) Rule Based (IP Address Ranges, Port Ranges & Schedule) DMZ (Demilitarized Zone) Host Support Policy Based Parental Controls Time Based Internet Access Port Range / Service Filtering Internet Domain Restriction Dynamic URL Filtering (OEM subscription service)
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	64/128 bit WEP Encryption WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator Hide SSID in beacons Wi-Fi Protection Setup (WPS) Auto Channel Selection
QoS	WMM Intelligent Stream Handling/Wireless Intelligent Stream Handling Automatic Traffic Classification & Prioritization Dynamic Traffic Shaping & Packet Fragmentation Automatic Configuration
Management	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Upgrade firmware via web-browser
Administrator Setting	Administrator password change Idle time out
Reset Setting	Reboot Reset to Factory Default
System monitoring	Status and Statistics, Time Zone & NTP Client, Event Log, Email Alarm

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: 0°C to 45°C (32°F to 113°F) Storage: -10°C to 70°C (14°F to 158°F)
Humidity (non-condensing)	15% – 95% typical
Dimensions	L: 6.69" (170mm) x W: 4.37" (111mm) x H: 1.02" (26mm)



FRONT PANEL



BACK PANEL

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EnGenius Technologies
1580 Scenic Avenue
Costa Mesa, CA 92626
USA
888.735.7888

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