

ESR9855G

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

300Mbps Multimedia Enhanced Wireless N Gaming Router with Gigabit

Turbo boost your gaming experience without lags

2.4GHz

b g n

ESR9855G 300Mbps Wireless N Gaming Router with Gigabit is designed to provide superior range and blazing wireless speed.

ESR9855G 300Mbps applies StreamEngine™ technology to detect and prioritize VoIP, gaming, movie streaming, and media packets to optimize multimedia streaming connectivity and enjoy reliable and real-time multimedia entertainment application. With QoS technology, it essentially avoids lags for hardcore gamers while playing online games.

Supports wireless data encryption WEP/WPA/WPA2 to protect your data and networking activity.

The embedded 3dBi high gain antenna extends the range, facilitates superior connections, and eases upgradeability.

One-Touch Setup



WDS



Power Saving



WEP, WPA WPA2



WiFi Multimedia



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

STREAMENGINE™ TECHNOLOGY

Prioritize latency-sensitivity data to ensure multimedia playing without lags.

802.11E QOS (WMM)

Optimized multimedia streaming for gaming consoles, HD TV, music, VoIP, and other home entertainment applications.

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

HIGH GAIN ANTENNA DESIGN

- Embedded 3dBi Antenna facilitates high-speed connection and superior coverage.
- With external connector for upgradeable antenna.



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

Technical Specifications Specifications may change without notice.

HARDWARE SPECIFICATION

| | |
|--------------------|---|
| CPU/MAC/BB | Ubicom IP7K |
| RF | Atheros AR9223 |
| Antenna | 3dBi Dipole Antenna* 2 |
| 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) 10/100/1000LAN1-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, 13 for Europe | | | | |
| Wireless Settings | Operation Mode: AP Router Wireless Mode - 11b / 11g / 11n 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 -11n: | | | | |
| | | 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) | 2.4G Radio (b/g/n) IEEE802.11n MCS 0~15 @ optimal -90 dBm IEEE802.11g 6~54 Mbps @ optimal -90 dBm IEEE802.11b 1~11 Mbps @ optimal -93 dBm | | | | |
| Available Transmit Power | 2.4G Radio (b/g/n) IEEE802.11n MCS 0~15 @ up to 18 dBm IEEE802.11g 6~54 Mbps @ up to 18 dBm IEEE802.11b 1~11 Mbps @ up to 20 dBm | | | | |
| Regulation Certifications | FCC Part 15, ETSI 300/328/CE | | | | |

SOFTWARE FEATURES

| | |
|-----------------------|---|
| Router and Gateway | Infrastructure |
| Topology | AP/ Router |
| Operation Mode | DHCP Server • Static IP • DNS • UPNP |
| LAN | Static IP DHCP Client PPPoE PPTP Clone MAC address DNS Relay DDNS-8 Verified Services Support |
| WAN | 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) |
| Router | 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 |
| Firewall | VPN pass-through (PPTP, L2TP, IPSEC) |
| VPN | 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 |
| Wireless | Stream Engine WMM Intelligent Stream Handling/Wireless Intelligent Stream Handling Automatic Traffic Classification & Prioritization Dynamic Traffic Shaping & Packet Fragmentation Automatic Configuration |
| QoS | |
| 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 |

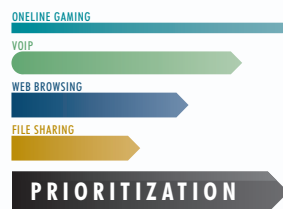
ENVIRONMENT & PHYSICAL

| | |
|---------------------------|--|
| Temperature Range | Operating: 0°C to 40°C (32°F to 104°F) Storage: -10°C to 60°C (14°F to 140°F) |
| Humidity (non-condensing) | 15% - 95% typical |



REAR VIEW

STREAM ENGINE™



EnGenius Technologies

1580 Scenic Avenue
Costa Mesa, CA 92626 • USA
888.735.7888