

ESR300H

X-TRA RANGE Wireless 11n Router

2.4GHz 300Mbps 11b/g/n



X-TRA RANGE family routers are special tailored for extensive wireless coverage users.

ESR300H is a 300Mbps AP Router offers user unprecedented network performance with economic circuit design. Guest Network (Multiple SSID) provides advance users to manage multiple users of various needs. TX power control enables flexible transmission tuning for different installation needs and prevents malicious eaves-dropping.

Parental Control allows parents to monitor and control the Internet usage using scheduling and monitoring features.

ESR300H comes with embedded light-weight VPN server supporting PPTP and L2TP protocol.

Package Contents

- 1* ESR300H
- 1*12V/1A Power Adapter
- 1*QIG
- 1*CD (Wizard & User's Manual)
- 1*Ethernet Cable
- 2* Detachable Antennas

Software Features

System Requirement

System	Windows or Mac OS
Access method	Web Based (HTTP 1.0 / 1.1)
Browser Compatibility	IE and Firefox

Status

System Status	System Information	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	IP Address, Subnet Mask, Default Gateway, DHCP, DNS.
	Current Wireless Setting	Operation mode, Wireless Mode, Channel/Frequency, L2 Isolation, MSSID Setting

Wireless Functional List

Operation mode	AP Router
	WDS
Network Map	Graphical display of current connected device list
802.11 mode options	b/g/n

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Channel setting		Manual
		Auto / Best Channel Selection
Transfer rate setting		Auto and Manual
Output Power Control		High / Medium / Low
Power Saving		Wireless LAN power saving
Guest Network (Multiple SSID)		4 BSSID for 2.4Ghz
		Each BSSID should has its own WiFi & security settings
WPS		WPS-button & Software WPS
Security	WEP	WEP(64/128bit)
	WPA/ WPA2	TKIP / AES
	Hidden SSID	Yes
	MAC address filtering	MAC address filtering (Both in WLAN and LAN)
	L2 Isolation	Yes
	802.1x Authenticator	MD5/ TLS/ TTLS, PEAP (Nice to Have)
	802.1x Supplicant	TTLS, PEAP (Nice to have)
LAN Settings		IP (check validity and DHCP server IP range)
DHCP server		DHCP Range, Lease Time, Client list
VPN Server		PPTP & L2TP (5 concurrent tunnels) (EnGenius)
Internet Scheduling (Parental Control)		Yes (EnGenius)
Web Site Tracking List (Web Monitoring)		Yes (EnGenius)
Administration		User Name (set as "admin")
		Password (can be changed by user)
		Confirmed Password
Backup/ Restore Setting		Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade		Firmware Upgrade Allow User to decide to Keep current setting or reset to default.
UPnP		Yes
Diagnosis		Address to Ping :

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Technical Specifications			
Hardware Specifications			
MCU	RTL8196C+8192CE		
Memory	32MB		
Flash	4MB		
Hosing Size	155mm x 116mm		
Physical Interface	WAN: 1 x 10/100 Fast Ethernet		
	LAN: 4 x 10/100 Fast Ethernet		
	WPS button (WPS & Reset to default combined)		
	Power Jack		
LED Definition	Antenna: SMA x 2		
	Power x1	Blue	Booting: Blink on start
	WLAN x1	Blue	Link: Solid Light / Active: Blinking
	LAN x 4	Blue	Link: Solid Light / Active: Blinking
	WAN x 1	Blue	Link: Solid Light / Active: Blinking
Adapter	12V / 1A		
Wireless Specifications			
Frequency Band	2.400~2.484 GHz(11b, 11g, 11n)		
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM		
	DBPSK, DQPSK, CCK		
Operating Channels	11 for North America, 14 for Japan, 13 for Europe		
Wireless Setting	Wireless Mode – 11b/ 11g /11n		
	Channel Selection		
	Channel Bandwidth (Auto, 20Mhz, 40Mhz)		
	Transmission Rate - 11n only ,11b/g/n mix ,11b ,11b/g		
Receive Sensitivity	Optimal -90 dBm		
Transmit power	Optimal 23dBm		
Antenna	2dBi dipole SMA		

Environment & Mechanical	
Temperature Range	0 to 40° C - Operating, -20 to 60 ° C - Storage
Humidity (non-condensing)	90% or less – Operating, 90% or less - Storage