

ESR-1221 EXT

Wireless 11G Mini Router

- 802.11 b/g
- 2.4 GHz
- 54Mbps
- AP Router



PRODUCT DESCRIPTION

ESR-1221 EXT 11G Mini Router supports home network with superior throughput and performance and unparalleled wireless range. It also comes with detachable SMA antenna which can be upgraded to higher gain to expand the signal coverage. ESR-1221 EXT comes with built-in 4-port full-duplex 10/100 Fast Switch to connect your wired-Ethernet devices together. The Router function ties it all together and allows user share high-speed cable or DSL Internet connection.

PACKAGE CONTENT

- 1* 802.11g SOHO Router (ESR-1221 EXT)
- 1 * 2dbi detachable antenna
- 1* 12V/1A Power Adapter
- 1* QIG
- 1*CD (User's Manual)

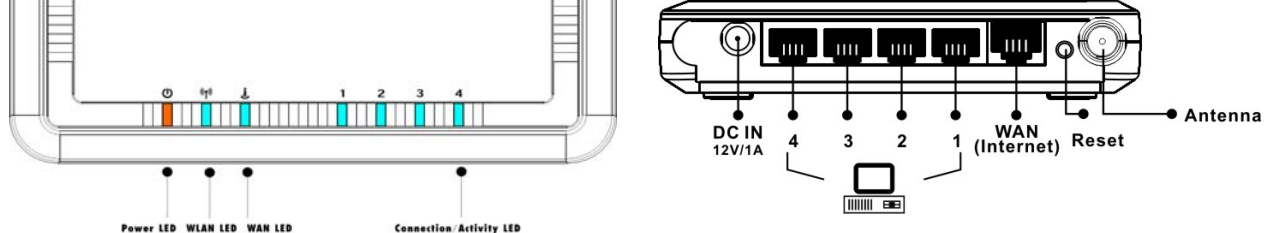
ESR-1221 EXT Datasheet Version 31032009

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice

HOME AND HOME OFFICE

ESR-1221EXT

Features	Benefits
PCB dimension	100mm * 90mm
Physical Interface	<ul style="list-style-type: none"> WAN: One 10/100 Fast Ethernet RJ-45
LEDs Status	<ul style="list-style-type: none"> Power/ Status WAN (Internet connection) LAN1~LAN4 (10/100Mbps) WLAN (Wireless Connection)
Power Requirements	<ul style="list-style-type: none"> Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC) Device: 12V/1A
> Front Panel (LED status)	> Rear Panel (Interface)
	
WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	1 (Link-> blue on, traffic->blink)
Power/Status	1 (On-> red Test/reset default->blink)
> RF SPECIFICATION	
Frequency Band	2.400 ~ 2.484 GHz
Modulation Technology	<ul style="list-style-type: none"> OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operating Channels	11 for North America and 13 for Europe
Receive Sensitivity (Typical)	Up to -90dBm
Available transmit power	Up to 23 dBm
Antenna *1	Peak Gain = 2 dBi

TECHNICAL SPECIFICATION	
> Hardware Specification	
Expansion Slots	N/A
Physical Interface	<ul style="list-style-type: none"> LAN: One 10/100 Fast Ethernet RJ-45 Reset Button Power Jack
LEDs Status	<ul style="list-style-type: none"> Power/ Status LAN (10/100Mbps) WLAN (Wireless Connection)
Power Requirements	<ul style="list-style-type: none"> Power Supply: 90 to 240 VDC \pm 10%, 50/60 Hz (depends on different countries) Active Ethernet (Power over Ethernet, IEEE802.3af)- 48 VDC/0.375A Device: 12V/1A
Regulation Certifications	<ul style="list-style-type: none"> FCC Part 15, CE
> RF Specification	
Frequency Band	2.400 ~ 2.484 GHz
Media Access Protocol	Carrier sense multiple access with collision avoidance (CSMA/CA)
Modulation Technology	<ul style="list-style-type: none"> OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operating Channels	11 for North America, 14 for Japan, 13 for Europe
Receive Sensitivity (Typical)	<ul style="list-style-type: none"> IEEE802.11g 6Mbps@ -92dBm 54Mbps@ -74dBm IEEE802.11b 1Mbps@ -97dBm 11Mbps@ -89dBm
Available transmit power	<ul style="list-style-type: none"> IEEE802.11g 26dBm@6~24 Mbps 25dBm@36 Mbps 23dBm@48 Mbps 22dBm@54Mbps IEEE802.11b 27dBm@1 ~ 11Mbps
Antenna *2	Detachable omni antenna TNC type; Peak Gain = 5dBi (Reverse)

SOFTWARE FEATURES	
> Router and Gateway	
Topology	Infrastructure
Operation Mode	AP / Router / WDS / Universal Repeater
LAN	<ul style="list-style-type: none"> • DHCP Server • Static Routing Table • UPNP • Spanning Tree
WAN	<ul style="list-style-type: none"> • PPTP • PPPoE • Static IP • DHCP Client • Clone MAC
Router	<ul style="list-style-type: none"> • NAT/ NAPT • Port Forwarding • DDNS • Time Zone(NTP client)
Firewall	<ul style="list-style-type: none"> • Blocking Ping • DoS(Blocking Ping, Port scan, Sync Flood) • MAC / IP Filtering • DMZ (Demilitarized Zone) Host • Policy Based Parental Controls <ul style="list-style-type: none"> ➢ Port Filtering ➢ Web Filtering ➢ MAC Filtering ➢ IP Filtering
VPN	VPN pass-through (PPTP & IPSEC)
Wireless	<ul style="list-style-type: none"> • 64/128 bit WEP Encryption • WPA Personal (WPA-PSK using TKIP or AES) • WPA Enterprise (WPA-EAP using TKIP) • 802.1x Authenticator • Hide SSID / beacons • User Isolation • RF Power Control • QoS • Best channel selection

> Management	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> • Via webpage upgrade • Auto recovery once firmware upgrade fail
Administrator Setting	<ul style="list-style-type: none"> • Administrator password change • Idle time out
Reset Setting	<ul style="list-style-type: none"> • Reboot • Reset to Factory Default • Backup Settings
Install wizard	<ul style="list-style-type: none"> • Device act as AP/Router mode • Device act as Repeater mode
System Log	<ul style="list-style-type: none"> • Log important System messages
> Environment & Physical	
Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15% ~ 95% typical