

Wireless 11G Mini Router			ESR-1221 EXT
2.4GHz	54Mbps	802.11 b/g	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)

Technical Specifications

HARDWARE SPECIFICATIONS

MCU	RTL8186
Memory	8MB SDRAM
Flash	2MB
PCB dimension	100mm * 90mm
Physical Interface	<ul style="list-style-type: none"> ● WAN: One 10/100 Fast Ethernet RJ-45 ● LAN: Four 10/100 Fast Ethernet RJ-45 ● Reset Button

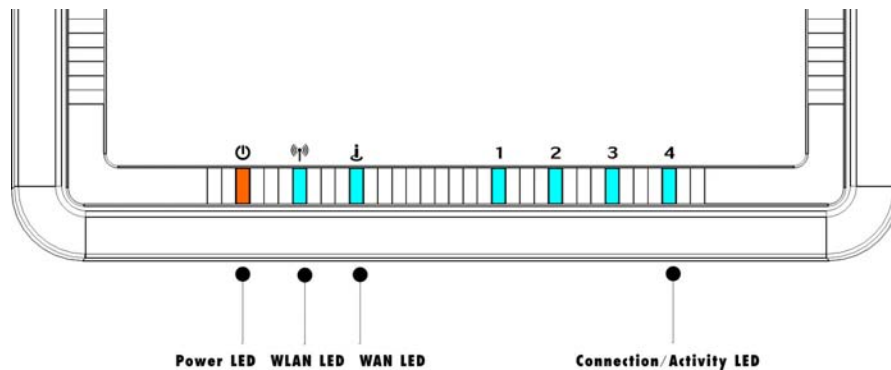
* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

	<ul style="list-style-type: none"> ● Power Jack ● 1 SMA detachable Antenna
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

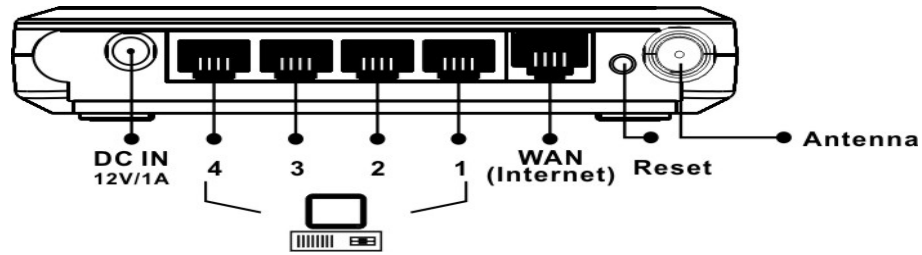
➤ **Front Panel (LED status)**

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)



➤ **Rear Panel (Interface)**

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
 ** All specifications are subject to change without notice.



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

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

** All specifications are subject to change without notice.

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/ NATP •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

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

** All specifications are subject to change without notice.

➤ **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

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

** All specifications are subject to change without notice.