

ERB9250

802.11b/g/n Range Extender

- 2.4 GHz
- 300Mbps
- 11N Repeater/ client bridge



PRODUCT DESCRIPTION

ERB9250 is a 2.4GHz 802.11b/g/n 300Mbps Repeater & Client Bridge (Range Booster / Extender). Range Extender solves the signal attenuation (limited coverage) problem by literally repeating / extending AP radio signal to dead-spots. While repeater clones AP and serves as a subsidiary entity to its clients, client bride offers an extension of wired network to the AP.

PACKAGE CONTENT

- > 1* 802.11n SOHO Router (ESR-9250)
- > 1* 12V/1A Power Adapter
- ▶ 1*QIG
- > 1*CD (User's Manual)

TECHNICAL SPECIFICATION			
> HARDWARE SPECIFICATIONS			
MCU	RT3052, 384MHz embedded RF/MAC/BBP		
Memory	32MB SDRAM		
Flash	4MB		
PCB dimension	100mm * 90mm		
	Ethernet: One 10/100 Fast Ethernet RJ-45		
Physical Interface	Rest button		
	Power Jack		
LEDs Status	Power Status		
	LAN (Internet connection)		
	WLAN(Wireless connection)		
Barrier Barrier	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)		
Power Requirements	Device: 12V/1A		

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** All specifications are subject to change without notice

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



> Top Panel (LED status)		
LAN	1 (Link-> blue on, traffic->blink)	
WLAN	1 (Link-> blue on, traffic->blink)	
Power/Status	1 (On-> red Test/reset default->blink)	

- LED indicator will be "Power", "WLAN" and "WAN"
- One RJ45 port only

Power Fthernet / WLAN

Bottom cover→ECB9300



		RF SPECIF	ICATION		
Frequency Band	2.400 ~ 2.484 GHz				
Modulation Technology		: BPSK, QPSK, 16 K, DQPSK, CCK	6-QAM, 64-QAM		
Operating Channels	11 for North America, 14 for Japan, 13 for Europe				
Vireless Setting	ChannChannTransn	el Bandwidth (Autonission Rate	g /11n ng varies by Country o, 20Mhz, 40Mhz) , 24, 18, 12, 11, 9, 6		
		Guard Interval 900ns 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	
		00	01	45.5	90
	5	52	108	57.8	90
	5	52	108	57.8	120
	5 6	52 58.5	108 121.5	57.8 65	120 135
	5 6 7 8 9	52 58.5 65	108 121.5 135	57.8 65 72.2	120 135 157.5
	5 6 7 8 9	52 58.5 65 13	108 121.5 135 27	57.8 65 72.2 14.4	120 135 157.5 30
	5 6 7 8 9 10	52 58.5 65 13 26	108 121.5 135 27 54	57.8 65 72.2 14.4 28.9	120 135 157.5 30 60
	5 6 7 8 9 10 11	52 58.5 65 13 26 39	108 121.5 135 27 54 81	57.8 65 72.2 14.4 28.9 43.3	120 135 157.5 30 60 90
	5 6 7 8 9 10 11 12	52 58.5 65 13 26 39 52 78	108 121.5 135 27 54 81 108 162 216	57.8 65 72.2 14.4 28.9 43.3 57.8 86.7	120 135 157.5 30 60 90 120 180 240
	5 6 7 8 9 10 11	52 58.5 65 13 26 39 52 78	108 121.5 135 27 54 81 108	57.8 65 72.2 14.4 28.9 43.3 57.8 86.7	120 135 157.5 30 60 90 120 180

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Receive Sensitivity (Typical)	 ■ IEEE802.11n(2RX) 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 MCS 0~15@ >16dBm ● IEEE802.11g 6~54 Mbps@ 16dBm ● IEEE802.11b 1,11Mbps@ 19dBm
Antenna *2	Peak Gain = 2 dBi

SOFTWARE FEATURES			
> System			
System OS	Linux OS	System boot up time is <= 45 Sec	
> Utility			
Easy Setup Wizard	Υ		

ROUTER USER INTERFACE				
Access method	Web Based (HTTP 1.0 / 1.1)			
Browser Compatibility	Microsoft Internet Explorer	Microsoft Internet Explorer 5.5/6/7 , Safari Ver1.2, Firefox 2.0 or later		
System Status	System Information	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version, Management VLAN ID		
	Current IP Setting	IP Address, Subnet Mack, Default Gateway, DHCP TX/RX: packet counts & traffics in Kbytes		
	Current Wireless Setting	Operation mode, Wireless Mode, Channel/ Frequency, L2 Isolation, MSSID Setting		
		Repeater mode: List current associated clients. Show only authorized and associated clients		
On the control	SSID	SSID		
	MAC address	MAC address		
Client List	Channel	Channel		
	Security Type	Security Type		
	Mode (Infrastructure / Ad-h	Mode (Infrastructure / Ad-hoc)		
	Traffic in Kbytes	Traffic in Kbytes		

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	Client Bridge Mode: show available AP
	SSID
	MAC address
AP List	Channel
	Security Type
	Mode (Infrastructure / Ad-hoc)
	Traffic in Kbytes
	displays a list of events that are triggered on the Ethernet and Wireless interface. This log
System Log	can be referred to when an unknown error occurs on the system or when a report needs
	to be sent to the technical support department for debugging purposes

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Operation mode		CB (2.5 NAT)	
		Repeater	
Switch of 802.11 modes		B/G/N	
Channel setting		Manual	
		Auto / Best Channel Selection	
Transfer rat	e setting	Auto and Manual	
Output Pow	er Control	10% / 25% / 50% / 75% / 100%	
WiFi QoS		WMM	
Power Savii	ng	Wireless LAN power saving	
	WEP	WEP(64/128bit)	
	WPA/ WPA2	WPA-PSK(Personal), WPA2-PSK(Personal), WPA/WPA2-PSK(Personal), WPA-EAP(Enterprise), WPA2-EAP(Enterprise)	
	TKIP/ AES	TKIP / AES	
Security	Hidden ESSID		
	MAC address filtering	MAC address filtering (Both in WLAN and LAN), up to 50 field	
	L2 Isolation		
	802.1x Authenticator	MD5/ TLS/ TTLS, PEAP (Nice to Have)	
	802.1x Supplicant	TTLS, PEAP (Nice to Have)	
Desired / Preferred SSID BSSID Support		 Profile item can be arranged for preference Profile on the top represents higher preference User is allowed to move profile UP/Down 	
Site Survey		 Scan current AP, display information: SSID, MAC, Channel, Security, Signal, Mode (Infra/Adhoc) Allow to add to AP profile (preferred SSID) 	
Channal Pa	ndwidth Soloction	N Mode: 20,. 40, Auto	
Channel Bandwidth Selection		B/G Mode: 5, 10, 20, Auto	
LAN Settings		IP (check validity and DHCP server IP range)MAC	

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Administration	Password
	Confirmed Password
Remote Login	Enable / Disable Checkbox
	Management Port
Backup/ Restore Setting	Save Current SettingRestore Saved SettingReset to Factory Default
Firmware Upgrade	 Firmware Upgrade Firmware Recovery Allow User to decide to Keep current setting or reset to default.
Diagnosis	Address to Ping: Ping Frequency: 1/3/5/10/15/20
	Telnet Server
Emergency Recovery Page	A self-aid page for users in case of firmware upgrade failure

ENVIRONMENT & PHYSICAL		
Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage	
Humidity (non-condensing)	15% ~ 95% typical	
Dimensions	125mm (L) x 98mm (W) x 25mm (H)	