

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	
	Power Status	
LEDs Status	LAN (Internet connection)	
	WLAN(Wireless connection)	
Davis Parisiran arts	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)	
Power Requirements	Device: 12V/1A	

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> 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 SPECIFIC	CATION		
Frequency Band	2.400 ~ 2.	484 GHz			
Modulation Technology	OFDM DBPSI	: BPSK, QPSK, 16- K, DQPSK, CCK	QAM, 64-QAM		
Operating Channels	11 for No	th America, 14 for	Japan, 13 for Europ	e	
Wireless Setting	ChannChannTransr	el Bandwidth (Auto nission Rate	g varies by Country		
		Guard Interval 800ns Guard Interval 400ns		rd 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	20
					30
	2	19.5	40.5	21.7	45
	3	19.5 26			
			40.5	21.7	45
	3	26	40.5 54	21.7 28.9	45 60
	3 4 5 6	26 39	40.5 54 81	21.7 28.9 43.3	45 60 90
	3 4 5	26 39 52	40.5 54 81 108	21.7 28.9 43.3 57.8	45 60 90 120
	3 4 5 6	26 39 52 58.5	40.5 54 81 108 121.5	21.7 28.9 43.3 57.8 65	45 60 90 120 135
	3 4 5 6 7 8 9	26 39 52 58.5 65 13 26	40.5 54 81 108 121.5 135 27 54	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9	45 60 90 120 135 157.5 30 60
	3 4 5 6 7 8 9	26 39 52 58.5 65 13 26 39	40.5 54 81 108 121.5 135 27 54 81	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9 43.3	45 60 90 120 135 157.5 30 60
	3 4 5 6 7 8 9 10	26 39 52 58.5 65 13 26 39	40.5 54 81 108 121.5 135 27 54 81 108	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9 43.3 57.8	45 60 90 120 135 157.5 30 60 90
	3 4 5 6 7 8 9 10 11	26 39 52 58.5 65 13 26 39	40.5 54 81 108 121.5 135 27 54 81	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9 43.3	45 60 90 120 135 157.5 30 60
	3 4 5 6 7 8 9 10 11 12 13	26 39 52 58.5 65 13 26 39 52 78	40.5 54 81 108 121.5 135 27 54 81 108 162 216	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9 43.3 57.8 86.7 115.6	45 60 90 120 135 157.5 30 60 90 120 180 240
	3 4 5 6 7 8 9 10 11	26 39 52 58.5 65 13 26 39 52 78	40.5 54 81 108 121.5 135 27 54 81 108 162	21.7 28.9 43.3 57.8 65 72.2 14.4 28.9 43.3 57.8 86.7	45 60 90 120 135 157.5 30 60 90 120

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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.	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 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		
	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
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 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

1				
Operation mode		CB (2.5 NAT)		
		Repeater		
Switch of 802.11 modes		B/G/N		
Observation that the second se		Manual		
Channel set	uing	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 / Pr BSSID Supp	referred SSID port	 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)	