

EVR100

802.11b/g/n VPN Router

- 2.4GHz
- 300Mbps
- Gigabit
- 11N VPN

#### PRODUCT DESCRIPTION

EVR100 is a 2T2R Wireless 11N Gigabit **VPN Router** that delivers up to 6x faster speeds and 3x extended coverage than 802.11g devices. EVR100 supports home network with superior throughput and performance and unparalleled wireless range. With easy to use on the WPS function, it helps users to connect to wireless device with just one push button.

There's also a built-in 4-port full-duplex 10/100/1000 Gigabit Fast Switch to connect your wired-Ethernet devices together. The Router function ties it all together and lets your whole network shares a high-speed cable or DSL Internet connection.



EVR100 Datasheet Version 100111

\*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.

\*\* All specifications are subject to change without notice

HOME & HOME OFFICE

EVR100

TECHNICAL SPECIFICATION																									
> Hardware Specification																									
MCU	RT3052, 384MHz embedded RF/MAC/BBP Gigabit: Realtek 8366RB																								
Memory	64MB SDRAM (32+32)																								
Flash	8MB																								
PCB dimension	150mm * 100mm																								
Physical Interface	WAN: One 10/100/1000 Fast Ethernet RJ-45 LAN: Four 10/100/1000 Fast Ethernet RJ-45 Rest button Power Jack WPS (WiFi Protected Setup)																								
LEDs Status	Power Status WAN (Internet connection) LAN1~LAN4 WLAN(Wireless connection)																								
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC) Device: 12V/1A																								
> RF Specification																									
Frequency Band	2.400 ~ 2.484 GHz																								
Modulation Technology	<ul style="list-style-type: none"> <li>● OFDM: BPSK, QPSK, 16-QAM, 64-QAM</li> <li>● DBPSK, DQPSK, CCK</li> </ul>																								
Operating Channels	11 for North America, 14 for Japan, 13 for Europe																								
Wireless Setting	<ul style="list-style-type: none"> <li>● Wireless Mode – 11b/ 11g /11n</li> <li>● Channel Selection (Setting varies by Country)</li> <li>● Channel Bandwidth (Auto, 20Mhz, 40Mhz)</li> <li>● Transmission Rate -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps</li> </ul> <table border="1" data-bbox="539 1591 1437 1816"> <thead> <tr> <th rowspan="2">MCS index</th> <th colspan="2">Guard Interval 800ns</th> <th colspan="2">Guard Interval 400ns</th> </tr> <tr> <th>20MHz(Mbps)</th> <th>40MHz(Mbps)</th> <th>20MHz(Mbps)</th> <th>40MHz(Mbps)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>6.5</td> <td>13.5</td> <td>7.2</td> <td>15</td> </tr> <tr> <td>1</td> <td>13</td> <td>27</td> <td>14.4</td> <td>30</td> </tr> <tr> <td>2</td> <td>19.5</td> <td>40.5</td> <td>21.7</td> <td>45</td> </tr> </tbody> </table>	MCS index	Guard Interval 800ns		Guard Interval 400ns		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
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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	90
	5	52	108	57.8	120
	6	58.5	121.5	65	135
	7	65	135	72.2	157.5
	8	13	27	14.4	30
	9	26	54	28.9	60
	10	39	81	43.3	90
	11	52	108	57.8	120
	12	78	162	86.7	180
	13	104	216	115.6	240
	14	117	243	130	270
	15	130	270	144.4	300
Receive Sensitivity (Typical)	<ul style="list-style-type: none"> <li>● IEEE802.11n(2RX) MCS0/8 @ -91dBm MCS7/15@ -74dBm</li> <li>● IEEE802.11g (2RX) 6Mbps@ -92dBm 54Mbps@ -75dBm</li> <li>● IEEE802.11b (1RX) 1Mbps@ -93dBm 11Mbps@ -91dBm</li> </ul>				
Available transmit power	<ul style="list-style-type: none"> <li>● IEEE802.11N MCS 0~15@ typical 16 dBm</li> <li>● IEEE802.11g 6~54 Mbps@ typical 16 dBm</li> <li>● IEEE802.11b 1, 11Mbps@ typical 17 dBm</li> </ul>				
Antenna *2	Peak Gain = 2 dBi				

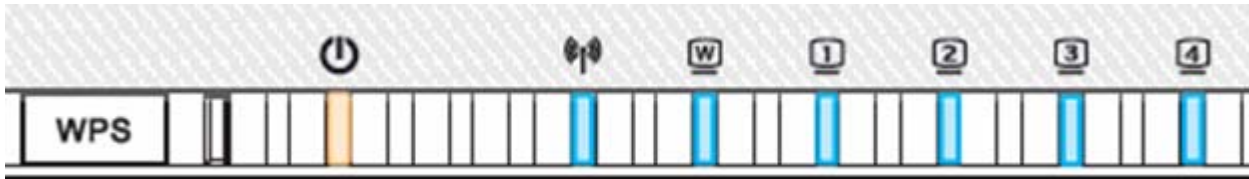
SOFTWARE FEATURES			
> Status			
System Status	System Information	Y	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version, <b>VPN info</b>
	Current IP Setting	Y	IP Address, Subnet Mask, Default Gateway, DHCP TX/RX: packet counts & traffics in Kbytes
	Current Wireless Setting	Y	Operation mode, Wireless Mode, Channel/Frequency, L2 Isolation, MSSID Setting 2.4Ghz TX/RX: packet counts & traffics in Kbytes
Client List	List current associated clients. Show only authorized and associated clients		
System Log	Displays a list of events triggered		
> Wireless Functional List			
Wireless Radio On/Off button	Y	Software button / Disable or Enable WiFi radio	
Operation mode	Y	Router	
	Y	WDS	
802.11 mode options	Y	b/g/n	
Channel Setting	Y	Manual	
	Y	Auto / Best Channel Selection	
Transfer rate setting	Y	Auto and Manual	
Output Power Control	Y	High / Medium / Low	
Power Saving	Y	Wireless LAN power saving	
Multiple BSSID (Multi AP)	Y	4 BSSID for 2.4Ghz	
	Y	Each BSSID should has its own WiFi & security settings	
WPS	Y	WPS : Enable / Disable Wi-Fi Protected Setup Information - WPS Current Status: unConfigured - Self Pin Code: - SSID: - Authentication Mode: Disable - Passphrase Key: - WPS Via Push Button: - WPS via PIN:	
Security	WEP	Y	WEP(64/128bit)

	WPA/ WPA2	Y	WPA-PSK (Personal), WPA2-PSK (Personal), WPA/WPA2-PSK (Personal), WPA-EAP (Enterprise), WPA2-EAP (Enterprise), WPA/WPA2-EAP (Enterprise)		
	TKIP/ AES	Y	TKIP / AES		
	Hidden ESSID	Y			
	MAC address filtering	Y	MAC address filtering (Both in WLAN and LAN), up to 50 field		
	L2 Isolation	Y			
	802.1x Authenticator	Y	MD5/ TLS/ TTLS, PEAP (Nice to Have)		
<b>&gt; Router Functional List</b>					
LAN Settings		Y	IP (check validity and DHCP server IP range) MAC		
DHCP server		Y	DHCP Range, Lease Time, Client list		
Router	NAT/ NAPT		Y		
	Port Forwarding		Y		
	Port Mapping		Y	Virtual Server: every single IP should support more than one service port (UI forbids that)	
	Port Tagging		Y		
	ALG		Y	FTP and Popular network applications	
	VPN	VPN pass-thru		Y	<b>PPTP, IPSEC, L2TP passthrough</b>
		Server Type		Y	<b>IPSEC and L2TP over IPSec</b>
		Encryption		Y	<b>56bit (DES), 168bit (3DES), 256bit (AES)</b>
		Max tunnels		Y	<b>5</b>
		Key management		Y	<b>Preshare key</b>
		Authentication		Y	<b>MD5/SHA-1</b>
		Advanced setting		Y	<b>NAT-Traversal, Dead Peer Detection (DPD), Perfect Forward Secrecy (PFS)</b>
	QoS		Y	Traffic control	
	Filtering	URL		Y	URL-Keyword blocking, 20 site can be registered
		IP		Y	IP Filtering with scheduling function
Port		Y	TCP / UDP		
ICMP		Y			
Block Ping From WAN		Y	Enable / Disable option box		
DMZ		Y	Multiple DMZ records		
Dynamic DNS		Y			
MAC Clone		Y	Clone WAN port MAC supported / Change in WAN side MAC address		
WAN side form	PPPoE		Y	PAP/CHAP/MS-CHAP / MS-CHAPV2	
			Y	Always (keep trying if fail)	
			Y	On demand / Manual	
			Y	Idle Time Out(disconnect if idled for a certain time)	

	DHCP Client	Y	
	PPTP	Y	PAP/CHAP/MS-CHAP / MS-CHAPV2
		Y	Always (keep trying if fail)
		Y	On demand / Manual
		Y	Idle Time Out (disconnect if idled for a certain time)
		Y	
	Fixed IP	Y	
L2TP	Y		
Administration		N	User Name
		Y	Password
		Y	Confirmed Password
Remote Login		Y	Customizable Port Default 8080
Backup/ Restore Setting		Y	Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade		Y	Firmware Upgrade <b>Allow User to decide to Keep current setting or reset to default.</b>
Display at time	NTP	Y	
	Manual setting for Time Server	Y	
UPnP		Y	
Power Saving		Y	Save energy for WLAN and LAN interfaces. - WLAN : Enable / Disable - Ethernet : Enable / Disable
Diagnosis		Y	Address to Ping : Ping Frequency : 1 / 3 / 5 / 10 / 15 / 20

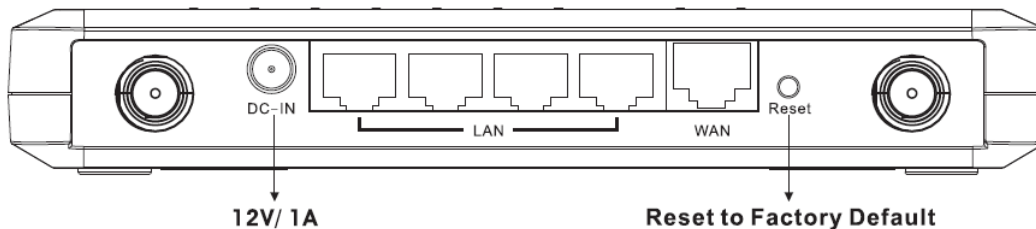
**PRODUCT INTERFACE**

**Top Panel (Interface)**



WAN	1 (Internet up→ 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)**



ENVIRONMENTAL AND MECHANICAL	
Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15% ~ 95% typical
Dimensions	PCB TBD

PACKAGE CONTENT	
▶	1 x 802.11n SOHO Router (EVR100)
▶	1 x 12V/1A Power Adapter
▶	1 x 2dBi SMA antenna
▶	1 x CD with User's Manual
▶	1 x QIG