

# **DATASHEET**

802.11b/g/n Pocket AP/ Router

**ETR9330** 

2.4GHz

300Mbps

Portable 11N

#### PRODUCT DESCRIPTION



ETR9330 is a 2T2R Wireless Single chip 11N Pocket AP/Router that delivers up to 3x faster speeds than 802.11g devices so it can drive superior performance and unparalleled wireless range. With easy to use WPS function it helps users to have wireless connection quickly.

Just leave power adapter behind and enjoy the convenience that embedded power brings. Device can be slipped into your pocket easily and build Wireless Networks through xDSL at somewhere you want.

<sup>\*</sup> 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.

<sup>\*\*</sup> All specifications are subject to change without notice.

## **Technical Specifications**

#### HARDWARE SPECIFICATIONS

MCU	RT3052		
Memory	32MB SDRAM		
Flash	4MB		
PCB dimension	80mm * 54mm		
Physical Interface	WAN/LAN: One 10/100 Fast Ethernet RJ-45		
	Power Jack		
	WPS (WiFi Protected Setup)		
LEDs Status	Operation Mode		
	Power Status		
	WAN (Internet)		
	WLAN(Wireless connection)		
	WPS		
Power Requirements	Power Board embedded (110~240V)		

## ➤ Top Panel (LED status)

Operation Mode	1 (AP: Orange / Router: Blue / Client Bridge: Green)
Power	1 ( Link-> blue static on)
WAN	1 ( Link-> blue static on, traffic->blink)
WLAN	1 ( Link-> blue on, traffic->blink)
WPS	1 (Link-> Associate Done, Processing->blink)

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## **RF SPECIFICATION**

Frequency Band	2.400~2.484 GHz					
Modulation Technology	<ul><li>OFDM: BPSK, QPSK, 16-QAM, 64-QAM</li><li>DBPSK, DQPSK, CCK</li></ul>					
Operating Channels	11 for N	lorth Am	nerica	ı, 14 for Japan,	, 13 for Europe	
Wireless Setting	<ul> <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</li> <li>-11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps</li> </ul>					
	-11n:		_		I	
	MCS Index			al 800ns	Guard Interval 40	
	IIIuex	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	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)	11b	1 Mi 11 M 6 Mi 54 M		•	≤ -90 dBm ≤ -87 dBm	
	11g			-	$\leq$ -90 dBm $\leq$ -70 dBm	

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	11n / HT 20 1 11n / HT 40		MCS 0 / 8 MCS 7 / 15		82 dBm 64 dBm	
		M	MCS 0 / 8		79 dBm	
		M	MCS 7 / 15		61 dBm	
Available Transmit	Mode		Status		Specificat	ion
Power	11b		1 ~ 11 Mbps		$\geq$ 16 dBm	
	11g		6 ~ 9 Mbps		≥ 16 dBm	
			12 ~ 18 Mbps		≥ 15 dB	m
			24 ~ 36 Mbps		≥ 14 dB	m
			48 ~ 54 Mbps		≥ 13 dB	m
	11n		MCS 0~1 / 8~9		$\geq$ 16 dBm	
			MCS 2~3 / 10~11		≥ 15 dBm	
			MCS 4~5 / 12~13		≥ 14 dB	m
			MCS 6~7 / 14~	15	≥ 13 dB	m
Antenna *2	Peak Gain = 2 dBi embedded ANT					

## **S**OFTWARE FEATURES

### > Router and Gateway

Topology	Infrastructure
Operation Mode	AP/Router/CB
LAN	DHCP Server     Static Routing Table     UPNP
WAN	PPTP  PPPoE  Static IP  DHCP Client  Clone MAC
Router	NAT/ NAPT     Static Routing     Dynamic Route     Virtual server mapping

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	<ul> <li>IP address mapping</li> <li>Port Forwarding</li> <li>Port Triggering</li> <li>Special application</li> <li>ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)</li> <li>DNS Relay</li> <li>DDNS</li> </ul>
Firewall	<ul> <li>Time Zone(NTP client)</li> <li>Blocking Ping</li> <li>DoS(Blocking Ping, Port scan, Sync Flood)</li> <li>MAC / IP Filtering</li> <li>ICMP Blocking</li> <li>SPI (Stateful Packet Inspection)</li> <li>DMZ (Demilitarized Zone) Host</li> <li>Policy Based Parental Controls</li> <li>Port Range / Service Filtering</li> <li>Internet Domain Restriction</li> <li>Dynamic URL Filtering (OEM subscription service)</li> </ul>
Wireless	VPN pass-through (PPTP, L2TP, IPSEC)  • Power saving(Green technology)  • 64/128 bit WEP Encryption  • WPA Personal (WPA-PSK using TKIP or AES)  • WPA Enterprise (WPA-EAP using TKIP)  • 802.1x Authenticator  • Hide SSID in beacons  • Wi-Fi Protection Setup (WPS)  • ACL control  • Best channel selection  • Speed/Bandwidth monitor

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QoS	•WMM
	Application base
	Priority Queue
	Bandwidth Allocation

### > Management

Configuration	Web-based configuration (HTTP)	
Firmware Upgrade	<ul><li>Via webpage upgrade</li><li>Auto recovery once firmware upgrade fail</li></ul>	
Administrator Setting	<ul><li>Administrator password change</li><li>Idle time out</li></ul>	
WPS button	2sec WPS Enable     >10sec Reset to Default	
System monitoring	Speed and Bandwidth monitoring	
Scheduling	Enable power saving	
Easy access	User can type model name and access the main page.	
Install wizard	Guide user to set-up Router smoothly	

## **ENVIRONMENT & PHYSICAL**

Temperature Range	0 to 40° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15%~95% typical
Dimensions	90mm (L) x 63mm (W) x 31mm (H)

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### **PACKAGE CONTENT**

- > 1\*802.11n Pocket AP (ETR9330)
- > 1\*CD (Userc Manual)
- ➤ 1\*AC cord
- ➤ 1\*RJ45 cable

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