

# ETR9360

Wireless-N 3G Router & Client Bridge

- 2.4GHz
- 150Mbps
- 3G/3.5G Network Sharing



## PRODUCT DESCRIPTION

ETR9360 is a 1T1R Wireless Single chip 11N Pocket AP/Router that delivers up to 3-times faster speed than 802.11g devices while serving with superior performance and unparalleled wireless range. With just the size of your breast-pocket, you can share 3G/3.5G or ADSL network anytime & anywhere without additional bulky adapter. It also comes with easy-to-use WPS function which allows you to setup wireless connection with one-touch.

## PACKAGE CONTENT

- 1\*802.11n Pocket AP (ETR9360)
- 1\*CD (User's Manual)
- 1\*Lion Battery
- 1\* Power Adapter
- 1\*RJ45 cable

ETR9360 Datsheet Version 24052010

\*Theoretical wireless signal rate based on IEEE standard of 802.11 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 AND HOME OFFICE

# ETR9360

TECHNICAL SPECIFICATIONS	
> HARDWARE SPECIFICATION	
MCU	RT3050, embedded RF/MAC/BB
Memory	32MB SDRAM
Flash	4MB
PCB dimension	80mm * 54mm
Physical Interface	WAN/LAN: 10/100 Fast Ethernet RJ-45 x 1
	USB port for 3G
	WPS (WiFi Protected Setup)
	Mini-USB for Adapter
LEDs Status	Operation Mode
	Power Status
	WAN (Internet)
	WLAN(Wireless connection)
	WPS
	3G
Power Requirements	Lion Battery or Adapter (3.7V 1800mAh) Battery Charger (110~240V)

> Top Panel (LED status)	
Operation Mode	1 (AP: <b>Orange</b> / Router: <b>Blue</b> / Client Bridge: <b>Green</b> )
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)
3G	1 (Link blue static on)

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               <ul style="list-style-type: none"> <li>-11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps</li> <li>-11n:                   <table border="1" data-bbox="485 730 1446 1209"> <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> <tr><td>3</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>4</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>5</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>6</td><td>58.5</td><td>121.5</td><td>65</td><td>135</td></tr> <tr><td>7</td><td>65</td><td>135</td><td>72.2</td><td>157.5</td></tr> </tbody> </table> </li> </ul> </li> </ul>				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	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
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Available Transmit Power	Mode	Status	Specification
	11b	1 ~ 11 Mbps	≥ 16 dBm
	11g	6 ~ 9 Mbps	≥ 16 dBm
		12 ~ 18 Mbps	≥ 15 dBm
		24 ~ 36 Mbps	≥ 14 dBm
		48 ~ 54 Mbps	≥ 13 dBm
	11n	MCS 0~1	≥ 16 dBm
		MCS 2~3	≥ 15 dBm
		MCS 4~5	≥ 14 dBm
		MCS 6~7	≥ 13 dBm
Antenna * 1	Peak Gain = 2 dBi embedded ANT		

SOFTWARE FEATURES	
> ROUTER AND GATEWAY	
Topology	Infrastructure
Operation Mode	AP/Router/Client Bridge
LAN	<ul style="list-style-type: none"> <li>• DHCP Server</li> <li>• Static Routing Table</li> <li>• UPNP</li> </ul>
WAN	<ul style="list-style-type: none"> <li>• PPTP</li> <li>• PPPoE</li> <li>• Static IP</li> <li>• DHCP Client</li> <li>• Clone MAC</li> </ul>
Router	<ul style="list-style-type: none"> <li>• NAT/ NAPT</li> <li>• Static Routing</li> <li>• Dynamic Route</li> <li>• Virtual server mapping</li> <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> </ul>

	<ul style="list-style-type: none"> <li>• DDNS</li> <li>• Time Zone(NTP client)</li> </ul>
Firewall	<ul style="list-style-type: none"> <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               <ul style="list-style-type: none"> <li>➢ Port Range / Service Filtering</li> <li>➢ Internet Domain Restriction</li> <li>➢ Dynamic URL Filtering (OEM subscription service)</li> </ul> </li> </ul>
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> <li>• Power saving(Green technology)</li> <li>• 64/128 bit WEP Encryption</li> <li>• WPA Personal (WPA-PSK using TKIP or AES)</li> <li>• WPA Enterprise (WPA-EAP using TKIP)</li> <li>• 802.1x Authenticator</li> <li>• Hide SSID in beacons</li> <li>• Wi-Fi Protection Setup (WPS)</li> <li>• ACL control</li> <li>• Best channel selection</li> <li>• Speed/Bandwidth monitor</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• WMM</li> <li>• Application base               <ul style="list-style-type: none"> <li>➢ Priority Queue</li> <li>➢ Bandwidth Allocation</li> </ul> </li> </ul>

MANAGEMENT	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> <li>Via webpage upgrade</li> <li>Auto recovery once firmware upgrade fail</li> </ul>
Administrator Setting	<ul style="list-style-type: none"> <li>Administrator password change</li> <li>Idle time out</li> </ul>
WPS button	<ul style="list-style-type: none"> <li>2sec WPS Enable</li> <li>&gt;10sec Reset to Default</li> </ul>
System monitoring	<ul style="list-style-type: none"> <li>Speed and Bandwidth monitoring</li> </ul>
Scheduling	<ul style="list-style-type: none"> <li>Enable power saving</li> </ul>
Easy access	<ul style="list-style-type: none"> <li>User can type model name and access the main page.</li> </ul>
Install wizard	<ul style="list-style-type: none"> <li>Guide user to set-up Router smoothly</li> </ul>

ENVIRONMENT AND 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)

BATTERY SPECS	
	Hours
Device Standby	13~14
Extreme Loading	3~4
Normal Loading	4~5
Battery Charge	1~2