

Technical Specification	
Hardware Specification	
MCU	RT3050, 320MHz embedded RF/MAC/BBP
Memory	32MB SDRAM
Flash	4MB
Physical Interface	WAN: 1 * 10/100 Fast Ethernet RJ-45 LAN: 2 * 10/100 Fast Ethernet RJ-45 Reset button Power Jack WPS (WiFi Protected Setup) USB (for 3G data card)
LEDs Status	Power Status WAN (Internet connection) 10/100Mbps LAN1 & LAN2 WLAN(Wireless connection) 3G networks
Power Requirements	Power Supply: DC12 Volt $\pm$ 5%; 2A(Max.) AC adapter AC 100V ~ 240V

**Note:**

1. WAN can either be USB port or WAN port. USB is the default WAN.
2. RAM and Flash design should be flexible to cover SOHO and ISP purpose.

**Currently Supported 3G Data Cards**

Vendor Name	Model Name	Supported
Huawei	E169G	O
	E170	O
	E172	O
	E176	O
	E180	O
	E220	O
	E270	O
	E272	O

	Vodafone K3565	O
BandRich (BandLuxe)	C100S	O
	C120	O
	C270	O
Sierra	Aircard 888U (Aircard 888)	O
	Compass 596	O
Option	ICON 225 (GIO 225)	O
	GlobeSurfer iCON 7.2	O
Novatel	Ovation MC950D	O
	U760	O
NU	MU-Q101	O
Sony Ericsson	MD300	O
ZTE	MF626	O
	Vodafone K3565-Z	O
	Vodafone K3520-Z	O
	MF627	O
ASUS	T500	O
AKIO	82D	O
PROLiNK	PHS100	O

**RF Specification**

Frequency Band	2.400~2.484 GHz

	IEEE802.11b:11,5.5,2,1 in Mbps				
	IEEE802.11n:				
	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	
Receive Sensitivity (Typical)	IEEE802.11n: MCS0@ -91dBm, MCS7@-74dBm IEEE802.11g: 6Mbps@ -90dBm, 54Mbps@ -70dBm IEEE802.11b: 1Mbps@ -90dBm, 11Mbps@ -87dBm				
Available transmit power (Typical)	IEEE802.11n: MCS0~7@ 15dBm IEEE802.11g: 6~54 Mbps@ 15dBm IEEE802.11b: 1~11Mbps@ 16dBm				
Antenna	Peak Gain = 2 dBi with SMA connector				

## Software Features

## Router and Gateway

Topology	Infrastructure
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	Clone MAC
Router	<p>NAT/ NAPT</p> <p>Static Routing</p> <p>Dynamic Route</p> <p>Virtual server mapping</p> <p>IP address mapping</p> <p>Port Forwarding</p> <p>Special application</p> <p>Station separation</p> <p>ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)</p> <p>DNS Relay</p> <p>DDNS</p> <p>Time Zone(NTP client)</p>
Firewall	<p>Blocking Ping</p> <p>DoS(Blocking Ping, Port scan, Sync Flood)</p> <p>MAC / IP Filtering</p> <p>ICMP Blocking</p> <p>SPI (Stateful Packet Inspection)</p> <p>DMZ (Demilitarized Zone) Host</p> <p>Policy Based Parental Controls</p> <ul style="list-style-type: none"> <li>&gt;Port Range / Service Filtering</li> <li>&gt;Internet Domain Restriction</li> <li>&gt;Dynamic URL Filtering (OEM subscription service)</li> </ul>
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<p>Power saving(Green technology)</p> <p>Multiple SSID</p> <p>64/128 bit WEP Encryption</p> <p>WPA Personal (WPA-PSK using TKIP or AES)</p> <p>WPA Enterprise (WPA-EAP using TKIP)</p> <p>802.1x Authenticator</p> <p>Hide SSID in beacons</p> <p>Wi-Fi Protection Setup (WPS)</p> <p>WDS</p> <p>ACL control</p> <p>Best channel selection</p> <p>Speed/Bandwidth monitor</p>

QoS	WMM Application base > Priority Queue > Bandwidth Allocation
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## Management

Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Via webpage upgrade Auto recovery once firmware upgrade fail
Administrator Setting	Administrator password change Idle time out
Reset Setting	Reboot Reset to Factory Default
System monitoring	Speed and Bandwidth monitoring
Scheduling	Enable Firewall Enable power saving
Easy access	User can type model name and access the main page
Install wizard	Guide user to set-up Router smoothly
Remote Management	Optional SNMP or TR069

## 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)