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DATASHEET

3G Mobile Wireless-N Router				ESR6670
2.4GHz	19,000 sessions	2.5G / 3G / 3.5G	300Mbps	AP/Router

PRODUCT DESCRIPTION

ESR6670 is a 3G-enabled 2T2R Wireless-N Router that delivers up to 6x faster speed (300Mbps) and 6X extended coverage than 802.11g devices. With Extreme Session Support (19000 Sessions) users are able to experience the unprecedented performance and smooth network services.

This product supports 3G data cards from HuaWei, OPTION, Sierra, BandLuxe and SIMCOM with standards covering WCDMA (HSDPA), CDMA2000 & TD-SCDMA. It is built-in with USB for easy and flexible plug-and-play interface for 3G cards.

ESR6670 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 2-port full-duplex 10/100 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.

PACKAGE CONTENT

- 1* 3G Mobile Wireless-N Router (ESR6670)
- 1*12V / 1.25A Power Adapter
- 1*QIG
- 1*CD (User's Manual)
- 2*SMA Antenna

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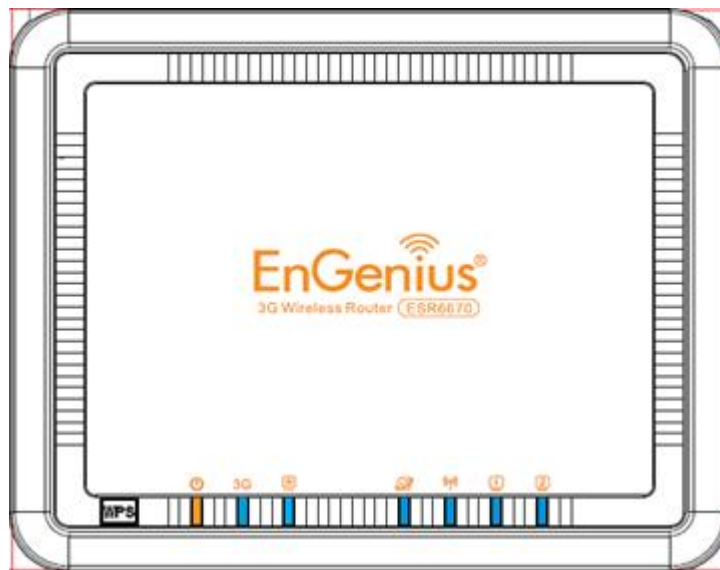
HARDWARE SPECIFICATIONS

MCU	RT3052, 384MHz embedded RF/MAC/BBP
Memory	32MB SDRAM
Flash	4MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: 1 * 10/100 Fast Ethernet RJ-45
	LAN: 2 * 10/100 Fast Ethernet RJ-45
	Rest 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: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)
	Device: 12V/1.25A

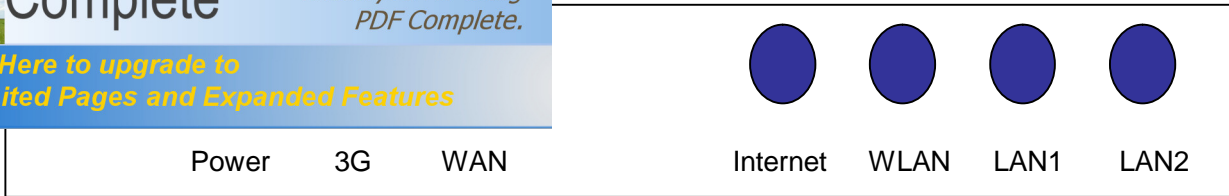
Note:

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.

Power	1 (On-> orange Test/reset default->blink)
3G	1 (Link-> blue on)
WAN	1 (Link-> blue on, traffic->blink)
Internet	1 (Link-> blue on)
WLAN	1 (Link-> blue on, traffic->blink)
LAN1	1 (Link-> blue on, traffic->blink)
LAN2	1 (Link-> blue on, traffic->blink)

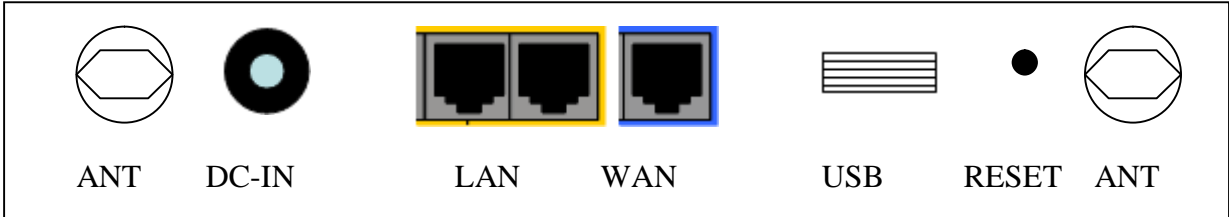


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Rear Panel (Interface)

Antenna: Detachable SMA



Frequency Band	2.400~2.484 GHz																																																																																												
Modulation Technology	<ul style="list-style-type: none"> ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK ● 3G / 3.5G: WCDMA (HSDPA), CDMA2000 & TD-SCDMA 																																																																																												
Operating Channels	11 for North America, 14 for Japan, 13 for Europe																																																																																												
Wireless Setting	<ul style="list-style-type: none"> ● Wireless Mode . 11b/ 11g /11n ● Channel Selection (Setting varies by Country) ● Channel Bandwidth (Auto, 20Mhz, 40Mhz) ● Transmission Rate -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps <table border="1" data-bbox="352 954 1378 1839"> <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> <tr><td>8</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr> <tr><td>9</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>10</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>11</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>12</td><td>78</td><td>162</td><td>86.7</td><td>180</td></tr> <tr><td>13</td><td>104</td><td>216</td><td>115.6</td><td>240</td></tr> <tr><td>14</td><td>117</td><td>243</td><td>130</td><td>270</td></tr> <tr><td>15</td><td>130</td><td>270</td><td>144.4</td><td>300</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	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
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Receive Sensitivity	<ul style="list-style-type: none"> ● IEEE802.11n MCS0/8 @ -91dBm MCS7/15@ -74dBm 																																																																																												

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	<ul style="list-style-type: none"> ● IEEE802.11b 1Mbps@ -90dBm 11Mbps@ -86dBm
Available transmit power	<ul style="list-style-type: none"> ● IEEE802.11N MCS 0~3@ ≥ 15dBm MCS 4~5@ ≥ 13dBm MCS 6~7@ ≥ 12dBm ● IEEE802.11g 6~18 Mbps@ ≥ 15 dBm 24~36 Mbps@ ≥ 13 dBm 48~54 Mbps@ ≥ 12 dBm ● IEEE802.11b 1, 11Mbps@ ≥ 15 dBm
Antenna *2	Peak Gain = 2 dBi with SMA connector

SOFTWARE FEATURES

Router and Gateway

Topology	Infrastructure
Operation Mode	AP / Router / WDS
LAN	<ul style="list-style-type: none"> ● DHCP Server ● Static Routing Table
WAN	<ul style="list-style-type: none"> ● PPTP ● PPPoE ● Static IP ● DHCP Client ● Clone MAC
Router	<ul style="list-style-type: none"> ● NAT/ NAPT ● Static Routing ● Dynamic Route

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	<ul style="list-style-type: none"> •Port Forwarding •Port Triggering •Special application •ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP) •DNS Relay •DDNS •Time Zone(NTP client)
Firewall	<ul style="list-style-type: none"> •Blocking Ping •DoS(Blocking Ping, Port scan, Sync Flood) •MAC / IP Filtering •ICMP Blocking •SPI (Stateful Packet Inspection) •DMZ (Demilitarized Zone) Host •Policy Based Parental Controls <ul style="list-style-type: none"> ➢ Port Range / Service Filtering ➢ Internet Domain Restriction ➢ URL Filtering
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> •Power saving(Green technology) •Multiple SSID •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) •WDS •ACL control •Best channel selection •Speed/Bandwidth monitor

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- Priority Queue
- Bandwidth Allocation

Management

Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> • Via webpage upgrade • Auto recovery once firmware upgrade fail
Administrator Setting	<ul style="list-style-type: none"> • Administrator password change
Reset Setting	<ul style="list-style-type: none"> • Reboot • Reset to Factory Default
System monitoring	<ul style="list-style-type: none"> • Speed and Bandwidth monitoring
Scheduling	<ul style="list-style-type: none"> • Enable Firewall • Enable power saving
Easy access	<ul style="list-style-type: none"> • User can type model name and access the main page.
Install wizard	<ul style="list-style-type: none"> • Guide user to set-up Router smoothly

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)