

Wireless 300N Gigabit Gaming Router

ESR9855G

2.4GHz

Gigabit Ethernet / Stream Engine

11N 2x2 (300Mbps)

PRODUCT DESCRIPTION



ESR9855G is a Media Enhanced 11N Gaming Router. ESR9855G supports home network with superior throughput and performance and unparalleled wireless range (3dBi antenna included). With easy to use on the WPS function, it helps users to connect to wireless device with just one push button. Most importantly, the latest StreamEngine technology guarantees real-time multimedia services.

There's also a built-in 4-port 10/100/1000 Gigabit 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.



- Stream Engine Support: media-enhanced user experience
- WISH (WLAN Intelligent Stream Handling): smooth streaming wireless data transfer
- Multiple SSIDs: wireless network sharing management
- Gigabit Switch Ports: perfect for internal file sharing
- WDS AP: cross AP communication
- WPS button: easy one-touch-setup wireless security
- UPnP Support: game console compatible
- Upgradeable Antenna: flexible for extending radio coverage

** All specifications are subject to change without notice.

Hardware / RF Spec

CPU/MAC/BB	Ubicom IP7K	
RF	Atheros AR9223 (2x2)	
Environmental condition	Operation	Temperature 0~40°C / Humidity 90% or less (Nn-condensing)
	Storage	Temperature . 10~60°C / Humidity 95% or less (Nn-condensing)
PCB Dimension	154mm x 119mm	
Antenna Connector	SMA Reverse	
Antenna	3dBi External x 2	
LED	Blue LEDs	

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 																																																				
Operating Channels	11 for North America, 13 for Europe																																																				
Wireless Setting	<ul style="list-style-type: none"> ● Operation Mode: AP Router ● Wireless Mode . 11b/ 11g /11n ● Channel Selection (Setting varies by Country) ● Channel Bandwidth (Auto, 20Mhz, 40Mhz) ● Transmission Rate <ul style="list-style-type: none"> -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps -11n: <table border="1" data-bbox="363 1541 1394 2031"> <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> 				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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	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)	2.4G Radio (b/g/n) <ul style="list-style-type: none"> ● IEEE802.11n MCS0~15 @ optimal -90dBm ● IEEE802.11g 6~54Mbps@ optimal -90dBm ● IEEE802.11b 1~11Mbps@ optimal -93dBm 				
Available transmit power	2.4G Radio (b/g/n) <p>IEEE802.11N MCS 0~15@ up to 18dBm</p> <ul style="list-style-type: none"> ● IEEE802.11g 6~54 Mbps@ up to 18dBm ● IEEE802.11b 1~11Mbps@ up to 20dBm 				
Regulation Certifications	FCC Part 15, ETSI 300/328/CE				

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SOFTWARE FEATURES

System Status	System Information	Y	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	Y	IP Address, Subnet Mask, Default Gateway, DHCP
	Current Wireless Setting	Y	Operation mode, Wireless Mode, Channel/ Frequency, L2 Isolation, MSSID Setting
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	AP	
	Y	Router	
	Y	WDS	
Switch of 802.11 modes	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	
WMM	Y		
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)

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	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)

Functional List

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		
	Virtual Server / Port Mapping	Y	Virtual Server: every single IP should support more than one service port (UI forbids that)	
	Port Trigger	Y		
	WISH	Y	Wireless Intelligent Stream Handling	
	QoS	Y	StreamEngine	
	Filtering	URL	Y	URL-Keyword blocking, 20 site can be registered
		IP	Y	IP Filtering with scheduling function
		Port	Y	TCP / UDP
	Block Ping From WAN		Y	Enable / Disable option box
DMZ		Y	Multiple DMZ records	
Dynamic DNS		Y		
UPNP		Y	Universal Plug and Play	
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		

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	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)
	Fixed IP	Y	
Administration		N	User Name
		Y	Password
		Y	Confirmed Password
Backup/ Restore Setting		Y	Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade		Y	Firmware Upgrade
Diagnosis		Y	Address to Ping : Ping Frequency : 1 / 3 / 5 / 10 / 15 / 20
Jumbo Frame Support		Y	9216bytes

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