

ESR-9753CR

802.11b/g/n SOHO Router

- 2.4GHz
- 150Mbps
- 11N Router/Repeater /CB/CR



PRODUCT DESCRIPTION

ESR-9753CR is a 1T1R Wireless Single chip 11N AP Router & Client Bridge that delivers up to 3x faster speeds than 802.11g devices. ESR-9753CR 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 4-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*802.11n SOHO Router (ESR-9753CR)
- 1*12V/1A Power Adapter
- 1*QIG
- 1*CD (User's Manual)
- 1*SMA Antenna

ESR9753CR Datasheet Version 28082009

*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.

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BUSINESS CLASS

ESR-9753CR

TECHNICAL SPECIFICATION

> HARDWARE SPECIFICATIONS

MCU	RT3050, 320MHz embedded RF/MAC/BBP
Memory	32MB SDRAM
Flash	4MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: One 10/100 Fast Ethernet RJ-45
	LAN: Four 10/100 Fast Ethernet RJ-45
	Rest button
	Power Jack
LEDs Status	WPS (WiFi Protected Setup)
	Power Status
	WAN (Internet connection)
	10/100Mbps LAN1~LAN4
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)
	Device: 12V/1A

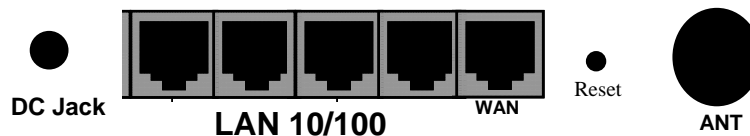
> PANEL

TOP PANEL INTERFACE (LED STATUS)



WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	1 (Link-> blue on, traffic->blink)
Power/Status	1 (On-> red Test/reset default->blink)

REAR PANEL INTERFACE



> RF SPECIFICATION					
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, 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 <ul style="list-style-type: none"> -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps -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)	<ul style="list-style-type: none"> ● IEEE802.11n MCS0@ -91dBm MCS7@ -74dBm ● IEEE802.11g 6Mbps@ -90dBm 54Mbps@ -70dBm ● IEEE802.11b 1Mbps@ -90dBm 11Mbps@ -87dBm 				
Available transmit power	<ul style="list-style-type: none"> ● IEEE802.11N MCS7@ 15dBm ● IEEE802.11g 6~54 Mbps@ 15dBm ● IEEE802.11b 1, 11Mbps@ 16dBm 				
Antenna *1	Peak Gain = 2 dBi with SMA connector				

> SOFTWARE FEATURES: ROUTER AND GATEWAY	
Topology	Infrastructure
Operation Mode	AP Router / Repeater / Client Bridge / Client Router
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 • Virtual server mapping • IP address mapping • 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 ➢ Dynamic URL Filtering (OEM subscription service)
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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QoS	<ul style="list-style-type: none"> • WMM • Application base <ul style="list-style-type: none"> ➢ 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)