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# Chonghan CH- R5C3Z8 EV-D0 Wi-Fi Router Datasheet

Chonghan Wireless Router Series  
Datasheet

Caijinyong

CHONGHAN CO., LTD.

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## Document History

Version	Date	Comments	Author
1.00	2015-06-30	Initial Release Version	Samuel
1.01	2015-12-17	Change Contact	Caijinyong
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## References

[CHONGHAN CHR5 WIRELESS ROUTER USERMANUAL ENG](#)



**崇瀚科技 Chonghan**

Power by Chonghan

Chonghan Co., Ltd.

## Overview

The CH-R5C3Z8 EV-DO Wi-Fi Router is a Quad-Band device which has been specially designed for small business & home offices who require high level of security policy, prefer one device to perform several critical functions, require 1 Ethernet ports for network devices, and secure remote access to corporate resources outside the office for combination of up to 4 site-to-site and client-to-site connections.

The wireless communications unit is protected by robust industrial housing that also features a series of standard connectors and a SIM cardholder.

Being a standalone device, this plug-and-play solution, comes equipped with standard connectors for power supply, antenna and ethernet port.

On account of its focus on EV-DO communication, and its robust casing, the CH-R5C3Z8 EV-DO Wi-Fi Router is particularly suited for M2M applications with a wireless data transfer volume. This makes it a product that can be employed in a wide range of business fields – metering, remote maintenance, transportation and logistics, traffic systems, vending machines, security, and facility management.

## Applications

- POS terminals and scanners
- Vending machines
- Security systems
- Remote telemetry and telematics systems
- Fleet management and tracking systems
- Traffic control and navigation systems
- Remote Data Monitor and Control
- AMR (automatic meter reading) for power, water, gas, oil meter
- Power station monitoring and control
- Traffic signals monitor and control
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

## Benefits and Features

- Industrial design for small dimension
- Robust industrial housing
- Firewall
- NAT Router for Internet Access Sharing
- 360Mhz CPU with hardware-based encryption accelerator
- DC 5~25V wide range, low power consumption
- Watch Dog

# Specification

General Features	
<b>Frequency Bands</b>	800MHz Send: 824 ~ 849 MHz Recieve: 869 ~ 894 MHz 1900MHz Send: 1850 ~ 1910 MHz Recieve: 1930 ~ 1990 MHz
<b>Receiving Sensitivity</b>	CDMA2000 1x RTT compliant with 3GPP2 CS0011-C: excelled - 104 dBm CDMA2000 1x EV-DO compliant with 3GPP2 CS0033-A: excelled - 105.5 dBm
<b>Output Power</b>	1W @ -75dBm
<b>Config</b>	WEB GUI
<b>Voltage</b>	DC 5~25V
<b>Temperature</b>	Operation: -20°C to +65°C Storage: -40°C to +80°C
<b>Humidity</b>	5% ~ 95% relative humidity
<b>Dimensions</b>	105mm x 59/82mm(fix hole) x 26mm
<b>Weight</b>	240g

Data Performance	
<b>Protocol</b>	CDMA2000 1x CDMA2000 EV-DO Rev 0(EV-DOr0) CDMA2000 EV-DO Rev A(EV-DOrA)
<b>Speed</b>	Downlink: 3.1mbps Uplink: 1.8mbps
<b>Coding Scheme</b>	EVRC 13kQCELP
<b>Authentication Protocol</b>	PAP / CHAP

Wi-Fi	
<b>Standard</b>	IEEE 802.11 b/g/n 150N (1x1)
<b>Frequency Band</b>	2.4GHz (ISM Frequency Bands)
<b>Compliant to</b>	802.11b Data Rate - 11, 5.5, 2, 1 Mbps (DSSS/CCK) or 802.11g Data Rate - 54, 48, 36, 24, 18, 12, 9, 6 Mbps (OFDM) 802.11n Data Rate - 150, 54, 48, 36, 24, 18, 12, 9, 6 Mbps
<b>WIFI Channel</b>	Wireless automatic channel selection
<b>Security</b>	64/128-bit WEP (Wired Equivalent Privacy) WPA & WPA-PSK & WPA2 -PSK(Wi-Fi Protected Access)

Router	
<b>Throughput</b>	250 Mbps microprocessor 10/100 WAN port for better throughput/security
<b>Auto Sensing and Uplink</b>	Support
<b>DHCP Client</b>	Support
<b>DHCP Server</b>	Support
<b>NAT</b>	Support

## CHONGHAN CH-R5C3Z8 EV-DO WI-FI ROUTER DATASHEET

<b>Logging &amp; Monitoring</b>	Support
<b>NTP support</b>	Support
<b>SNMP</b>	Support
<b>Web UI</b>	Support
<b>Firewall</b>	SPI Firewall
<b>Operating system compatible</b>	Windows, UNIX, Macintosh, and Linux

Interfaces	
<b>3G Antenna</b>	50Ω / SMA / Female
<b>WIFI Antenna</b>	50Ω / SMA / Female
<b>Power Supply</b>	Φ 5.5mm / 2.5mm
<b>Reset Button</b>	5s for trigger
<b>SIM Card Drawer</b>	SIM/UIM card, 1.8/3.3V
<b>Serial Port</b>	RS-232
<b>Data Interface</b>	10/100 Base-T (RJ45)

LED		
<b>3G</b>	Off	3G offline
	On	3G online
<b>SYS</b>	Off	System off
	On	System on
<b>LAN</b>	Off	LAN offline
	On	LAN online
<b>POW</b>	Off	Power off
	On	Power on

Others	
<b>Warranty</b>	1 Year
<b>Package Contents</b>	The CH-R5C3Z8 EV-DO Wi-Fi Router
	100 Base-T Cable
	DC 12V1A Power Adapter
	3G Antenna
	WIFI Antenna