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Chonghan CH-R4 LTE Wi-Fi Router Datasheet

Chonghan Wireless Router Series
Datasheet

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CHONGHAN CO., LTD.

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Document History

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崇瀚科技 Chonghan

Power by Chonghan

Overview

Chonghan R4 series industrial 3G/4G LTE wireless router designed for rapid industrial network design. Equipment using Broadcom Corporation main chip, built-in industrial grade 3G/4G module, set Ethernet port WAN, LAN and industrial RS232/RS485 serial port, 300Mbps WiFi in one. There are ICMP detection software and hardware watchdog design, dropped the automatic reconnection, ensure the equipment has been online. Industrial grade standard design, through electromagnetic compatibility EMC test, stable and reliable. DC7-36V wide voltage input, the operating temperature of -35 DEG C to +70 DEG C, support a variety of VPN encryption protocol (PPTP, L2TP, IPSec, GRE). Widely used in video surveillance, ATM rapid networking, water monitoring, remote meter reading, environmental monitoring and other fields.

Benefits and Features

- Support Unicom, telecom, mobile 4G LTE and 3G network standard
- support APN, VPDN network and access network
- support cable network ADSL (including PPPOE, DHCP, IP and static mode) network backup 3G/4G
- The intelligent filter: in 3G/4G network, the router may prohibit one of the following IP or IP access to the network; when switching to a wired network can normal network
- support ICMP detection and heartbeat detection equipment to ensure stable and reliable operation.
- support PING detection to restart, restart SMS function
- support virtual router redundancy protocol VRRP
- It supports a variety of VPN encryption protocol, and Cisco, Juniper and other mainstream server easily docking.
- The software and hardware watchdog design - independent, ensure the reliable operation of the system.
- DC7-36V wide voltage input (enhanced version of maximum support DC50V)
- It has low voltage, over-current and over-voltage, anti reverse protection measures
- send local and remote log log system, realize the real-time monitoring of network
- support QoS (Quality of Service), according to the port, IP network for uplink / downlink bandwidth of QoS intelligent management
- support static routing, routing and dynamic routing strategy
- The device with a standard RS232/485 interface, can be used as a function of DTU
- LED monitoring (power supply, display system, 3G/4G network connection status and signal intensity (3 signal lights), VPN etc.)
- The support parameters are derived and backup, convenient mass configuration of equipment
- support SNMP v1/v2/v3
- support DMZ and port mapping function, DNS and DDNSSpecification

Product model

R4G7Q1	
band	TDD-LTE: Band38/39/40/41
	FDD-LTE: B1/B3/B8
	TD-SCDMA: Band34/39
	WCDMA: Band1/8
	CDMA 1x/EVDO:BC0
	GSM: 900/1800
Module output power	Class 3 (23dBm±2dB) for LTE FDD Class 3 (23dBm±2dB) for LTE TDD Class 2 (24dBm +1/-3dB) for TD-SCDMA Class 3 (24dBm +1/-3dB) for WCDMA Class 3 (24dBm±1dB) for CDMA BC0 Class E2 (27dBm ±3dB) for EDGE 900MHz Class E2 (26dBm ±3dB) for EDGE 1800MHz Class 4 (33dBm ±2dB) for GSM 900MHz Class 1 (30dBm ±2dB) for GSM 1800MHz
Module power	20uA @Power off 3mA @Sleep, Typical value 20mA @Idle state, Typical value

Hardware parameters

CPU and attributes	
CPU	Memory:512Mbit FLASH:128Mbit
Metal shell protection class	IP30
temperature	working temperature: -35℃~70℃
	Storage temperature: -40℃~80℃
humidity	<95%
volume	165*115*25mm
Wide voltage input	DC7-36V

EMC characteristics	
Electrostatic discharge immunity	EN6100-4-2, level 2
radiated susceptibility	EN6100-4-3, level 2
surge	EN6100-4-3, level 2
Power frequency magnetic field immunity	EN6100-4-6, level 2
Shock wave immunity	EN6100-4-8, Horizontal / vertical direction 400A/m(>level 2)

Interface	
One WAN 1LAN(or 2LAN) 10/100Mb RJ45	
One standard DB9 serial port RS232/485	
One SIMCard slot	
One 3G/4G antenna interface (50 /SMA female interface)	

One WIFI antenna interface (50 /SMA female head)

One Reset Key

One WPS Key

Physical characteristics

Shockproof: IEC60068-2-27

drop: IEC60068-2-32

shock: IEC60068-2-6

Software protocol

VPN Protocol

IPSec client

PPTP client

L2TP client and server

GRE client

Wi-Fi

Transmitting power: 17dbm

802.11n 300Mbps

Allow 50 users to access at the same time
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Support 802.1X Radius authentication service

Multiple encryption

DTU

Support TCP&UDP server and client mode

Serial baud rate: 300~115200bps
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At the same time to the 4 server to send serial data

NAT

Port mapping

Port trigger

DMZ

Firewall

IP address filtering

MAC address filtering

Parental control

URL filtering

QoS IP or port for Internet speed management, effective allocation of network bandwidth
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Administration

Web

Telnet
