CR34 CELLULAR WCDMA ROUTER
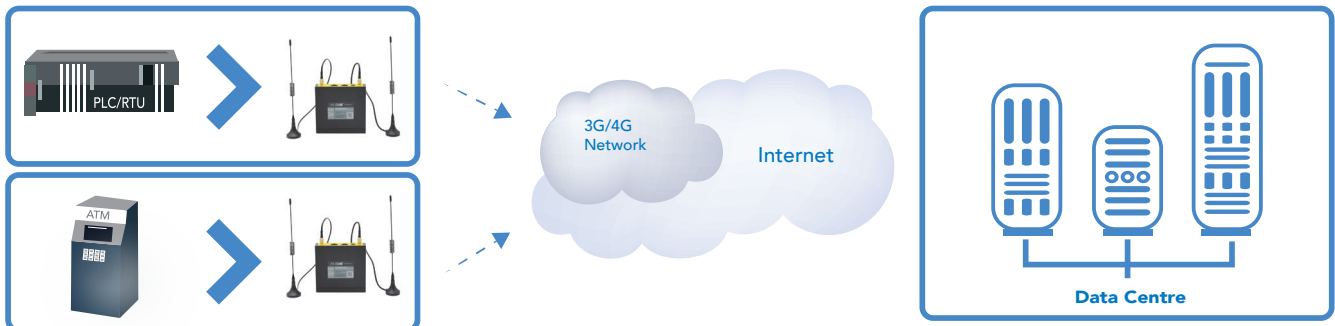## Technical Specifications

GENERAL

CR34 CELLULAR WCDMA ROUTER is a cellular terminal device that provides data transmission function by public WCDMA/ HSDPA/HSUPA/HSPA+ network. It adopts high-powered industrial 32-bit CPU and embedded real time operating system. It supports RS232 (or RS485/RS422) and Ethernet port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial and Ethernet devices with only basic configuration. It has been widely used on IoT applications such as self-service terminal, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environmental protection, post, weather, and so on.

HOW IT WORKS

PRODUCT FEATURES

Designed for Industrial Application

- High-powered industrial cellular module
- High-powered industrial 32bit CPU
- Supports low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode (optional)
- Housing: Metal, providing IP30 protection
- Power range: DC 5~36V

Stability and Reliability

- Supports hardware and software WDT
- Supports auto recovery mechanism, including online detect, auto redial when offline to make router always online
- Ethernet port: 1.5kV magnetic isolation protection
- RS232/RS485/RS422 port: 15kV ESD protection
- SIM/UIM port: 15kV ESD protection
- Power port: reverse-voltage and over voltage protection

PRODUCT FEATURES

High Performance

- 3G/HSPA/4G WAN access methods
- VPN client (PPTP, L2TP, OPENVPN, IPSEC and GRE) (only for VPN version)
- VPN server (PPTP, L2TP, OPENVPN, IPSEC and GRE) (only for VPN version)
- Local and remote firmware upgrade, import and export configure file
- NTP, RTC embedded
- Multiple DDNS provider service
- MAC Address clone, PPPoE Server
- Multi online trigger ways, including SMS, ring and data. Support link disconnection when timeout

Standard and Convenience

- Supports standard RS232 (or RS485/RS422). Ethernet port that can connect to serial or Ethernet devices directly
- Supports intellectual mode, enters into communication state automatically when powered
- Provides management software for remote management
- Supports multiple work modes

PRODUCT SPECIFICATIONS

Cellular Specifications

Cellular Module	Industrial cellular module
Standard and Band	UMTS/WCDMA/HSDPA/HSUPA/HSPA+; 850/1900/2100MHz; 850/900/1900/2100MHz (optional) GSM850/900/1800/1900MHz; GPRS/EDGE CLASS 12
Bandwidth	HSUPA:5.76Mbps (Upload speed) / HSDPA:7.2Mbps (Download speed) / UMTS:384Kbps (DL/UL) HSPA+: 21Mbps (Download speed)
TX power	<24dBm
RX sensitivity	<-109dBm

Hardware System

Item	Content
CPU	Industrial 32bit CPU
FLASH	16MB (Extendable to 64MB)
DDR2	128MB (Extendable to 256MB)

Power Consumption

Working State	Power Consumption
Standby	103~115mA@12VDC
Working	278~305mA@12VDC
Timing Shut down	3.15~3.70mA@12DVC

Interface type

Item	Content
Ethernet	1x 10/100 Mbps Ethernet port (RJ45), auto MDI/MDIX, 1.5kV magnetic isolation protection
Serial	1x RS232(or RS485/RS422) port, 15kV ESD protection; Data bits: 5, 6 ,7, 8. Stop bits: 1, 1.5 (optional), 2. Parity: none, even, odd, (space, mark) (optional). Baud rate: 2400~115200 bps
Indicator	"PWR", "SYS", "SIM", "Online", "ETH", "Signal Strength"
Antenna	Standard main,deputy SMA Yin double antenna interface, characteristic impedance 50 ohm
SIM/UIM	Standard 3V/1.8V user card interface, 15kV ESD protection
Power	Standard 3-PIN power jack, reverse-voltage and overvoltage protection
Reset	Restore the router to its original factory default settings

PRODUCT SPECIFICATIONS

Physical Characteristics

Item	Content
Housing	Metal, providing IP30 protection
Dimensions	100x97x25 mm
Weight	320g

Power Supply

Item	Content
Standard Power	DC 12V/1.5A
Power range	DC 5~36V

Environmental Limits

Item	Content
Operating Temperature	-35~+75oC(-31~+167°F)
Storage Temperature	-40~+85oC (-40~+185°F)
Operating Humidity	95% (unfreezing)

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SUSTAINABLE CERTIFICATION
✓ ISO 9001
✓ AS/NZS 4801
✓ ISO 14001

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