

UIL WCDMA ROUTER

UIL CELLULAR ROUTER WCDMA

GENERAL

UIL CELLULAR ROUTER WCDMA is a kind of cellular terminal device that provides data transmission function by public WCDMA/HSDPA/HSUPA/HSPA+ network.

It adopts high-powered industrial 32-bits 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 M2M fields, such as self-service terminal, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.



PRODCUT FEATURE

Design for Industrial Application

High-powered industrial cellular module

High-powered industrial 32bits CPU

Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode(optional)

Housing: iron, providing IP30 protection.

Power range: DC 5~9V

Stability and Reliability

Support hardware and software WDT

Support 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 overvoltage protection

Antenna port: lightning protection(optional)

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Standard and Convenience

Support standard RS232(or RS485/RS422),Ethernet port that can connect to serial, Ethernet devices directly

Support intellectual mode, enter into communication state automatically when powered

Provide management software for remote management

Support several work modes

Convenient configuration and maintenance interface (WEB or CLI)

High-performance

Support 3G/HSPA/4G WAN access methods.

Support VPN client(PPTP, L2TP, OPENVPN,IPSEC and GRE)(only for VPN version)

Support VPN server(PPTP, L2TP, OPENVPN,IPSEC and GRE)(only for VPN version)

Support local and remote firmware upgrade,import and export configure file.

Support NTP, RTC embedded.

Support multiple DDNS provider service.

Support MAC Address clone, PPPoE Server

Support multi online trigger ways, including

SMS, ring and data. Support link disconnection when timeout

Support APN/VPDN

Support DHCP server and client, firewall, NAT,

DMZ host , URL block, QoS, ttraff,statistics,real time link speed statistics etc.

Full protocol support , such as TCP/IP, UDP,ICMP, SMTP, HTTP, POP3, OICQ, TELNET,

FTP, SNMP, SSHD, etc.

Schedule Reboot, Schedule Online and Offline,etc.

Cellular Specification

Cellular Module	Industrial cellular module
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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

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Hardware System

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

Interface type

Item	Content
Ethernet	1 10/100 Mbps Ethernet port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
Serial	1 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

Physical Characteristics

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

Environmental Limits

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