

# RELIABLE SECURE CONNECTIVITY

**XWR3400G Series**

**5-Port LTE 4G Industrial Modbus Router**





## XWR3400G Series

### 5-Port LTE 4G Industrial Modbus Router



#### FEATURE HIGHLIGHTS

- High-performance industrial-grade wireless module / 32-bit communication processor
- Metal shell, protection grade IP30. Metal shell, and protection grade IP30, Wide power input range 5~36V
- WDT Watchdog design
- Adopt a complete anti-drop mechanism to ensure that the data terminal is always online
- Built-in 1.5KV electromagnetic isolation protection for Ethernet interface RS232/RS485 interface power and data isolation, in line with CSA, UL and IEC standards
- SIM/UIM card interface built-in 15KV ESD protection
- Built-in reverse phase protection and over-voltage protection for power interface
- Standard RS232 or RS485/RS422 (Optional), Ethernet and WIFI Interface
- Provide standard wired WAN port (support standard PPPOE protocol) , Plug and Play
- Multiple working mode options
- Configuration and maintenance interface
- Support local and remote WEB mode or CLI mode
- Multiple WAN connection methods, include static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, DHCP-4G/5G, 3G/4G/5G and wired WAN dual-link backup (optional)
- VPN client PPTP/L2TP/IPSEC (only available in VPN version) VPN sever PPTP/L2TP/IPSEC (only available in VPN version) Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- Support local upgrade and remote upgrade, Import and export configuration files NTP / Built in RTC
- MAC address clone , WIFI support 802.11b/g/n/ac, support WIFI AP /AP Client/bridge mode etc. (optional)
- WIFI support WEP/WPA/WPA2 encryption
- Support multiple online and offline trigger modes Support APN/VPDN ,DHCP server / DHCP client/DHCP binding MAC/DDNS/NAT/DMZ/QOS Support TCP/IP/UDP/FTP (Optional) /HTTP and other network protocols
- Support SPI firewall, access control, URL filter, IPV6/IPV4, 5G LAN, lock frequency, lock resident, EOIP, bridge mode, VxLAN, virtual IP, GRE/TAP, etc, traffic statistics, real-time display of data transmission rate





## PRODUCT DESCRIPTION

XWR3400G is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering, etc. Software-defined, multi-carrier networking, dual SIM models, 802.11n and global 2.5G/3G/HSPA+/LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, the XWR3400G is a convenient yet reliable solution for any industrial wireless application.



## SPECIFICATIONS

Cellular Specification	
Module	Industrial grade wireless module
Frequency	Support for FDD LTE: Band 1/3, Band 2/4/5/13/17/25 (Optional) Support CDMA 1XRTT/EVDO 800/1900MHz Support the whole network (Optional) : TDD-LTE, FDD-LTE, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	FDD LTE (Downlink 100Mbps, Uplink 50Mbps) , TDD LTE (Downlink 61Mbps, Uplink 18Mbps) CDMA2000 1X EVDO Rev A (Downlink 3.1Mbps, Uplink 1.8Mbps) , WCDMA (Downlink 42Mbps, Uplink 5.76Mbps) , TD-SCDMA (Downlink 4.2Mbps, Uplink 2.2Mbps)
Power	< 23dBm
Sensitivity	<- 93.3dBm
WIFI Specification	
Frequency	Support IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g : 54Mbps , IEEE802.11n : 150Mbps
Security	Support WEP, WPA, WPA2 and other encryption methods, WPS (Optional)
Power	20dBm (11n) , 24dBm (11g) , 26dBm (11b)
Sensitive	<-72dBm @ 54Mbps
Hardware System	
CPU	Industrial-grade 32-bit communication processor
FLASH	16MB, Extensible to 32MB
DDR3	128MB
Interfaces	
WAN	1 x 10/100/1000M Ethernet (RJ45) , Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
LAN	4 x 10/100/1000M Ethernet (RJ45) , Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial	1 x RS232(RS422/RS485), Built-in 1.5KV electromagnetic isolation protection Data bit : 5, 6, 7, 8 Stop bit : 1, 1.5(Optional), 2 Calibration: null, even, odd, SPACE(Optional) and MARK (Optional) Baud rate : 2400~115200bits/s
Indicators	"PWR", "SYS", "WIFI", "SIM", "Online", "Signal Strength"
I/O Port	6-pin 3.5mm wiring terminal, 2 inputs, 1 output, 1 relay; Controlled by Modbus protocol Input high level: 5 to 30 VDC Input low level: 0 to 3 VDC Load current: 50mA @ 30VDC Relay load 1A 250V AC/ 30V DC
Antenna	Cellular : 2 standard SMA female antenna interfaces, characteristic impedance 50 ohms WIFI : 1 standard SMA male antenna interfaces, characteristic impedance 50 ohms GPS: 1 calibrated SMA male antenna interface, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type user card interface , Support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
Power	Terminal power socket
Reset button	2 bins terminal power socket, built-in power reverse protection and overvoltage protection



Power Suplay	
Standard	DC 12V/1.5A
Range	DC 5 ~36V
Consumption	<500mA (12V)
Physical Properties	
Shell	Metal shell, protection grade IP68
Size	134.8 x 115.7 x 45mm (Does not include antenna and mounting parts)
Weight	520g
Others	
Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (No condensation)



## ORDER INFORMATION

Model	Technology	WAN	LAN	I/O	WIFI	SIM/UIM
XWR3450G-1M	LTE Cat4	1	4	2DI,1DO	1	2
XWR3450G-2M	LTE Cat4	1	4	2DI,1DO	1	2
XWR3450G-2MD	LTE Cat4	1	4	2DI,1DO	1	2 Modules





## WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



## WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



## WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

**Agatel** ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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