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RELIABLE SECURE CONNECTIVITY

XWR2420 Series

2-Port 4G LTE Industrial Router



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2-Port 4G LTE Industrial Router

FEATURE HIGHLIGHTS

- NXP Industrial grade processor
- Global 4G LTE CAT4/3G network with dual SIM cards for backup between multiple carrier networks
- Rugged enclosure, optimized for DIN rail or shelf mounting
- Support wide operating temperature range from-40°C to +70°C/-40℉ to +158℉
- 3 years warranty included
- Embedded Python SDK for secondary development
- Flexible modular design provides users with different connection modules like Ethernet, I/O, serial port, Wi-Fi, GPS
- Support 802.11 b/g/n, as AP or client mode, to establish versatile wireless network or be the backup WAN link for 4G/3G
- Support rich protocols like SNMP, Modbus bridging, RIP, OSPF
- Automated failover/failback between Ethernet, Cellular (dual SIM) and Wi-Fi
- Secure transmission with VPN tunnels like IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Embeds hardware watchdog to automatically recover from various failures, ensure highest level of availability
- Establishes a secured mechanism on centralized authentication and authorization of device access by supporting AAA (Radius, TACACS+, LDAP, local Authentication) and multiple levels of user authority
- Device Hub provides easy setup, mass configuration, and centralized management of remote devices
- User-friendly web interface design and more than one option of upgrade helping administrator to easily manage device
- WEB GUI and CLI enable the admin to achieve simple management and quick configuration among a large quantity of devices, and efficiently manage the remote routers on existing platforms through industrial standards

PRODUCT DESCRIPTION

XWR2420 is a cost-effective industrial cellular router with embedded intelligent features that are designed for multifarious M2M/IoT applications. Global WCDMA and 4G LTE carrier supported make this drop-in connectivity a great help for operators in maximizing uptime. Integrating embedded cellular modem and dual SIM function, the XWR2420 provides 3G/4G cellular network with 150 Mbps download and 50 Mbps uplink, it also has 2 fast Ethernet ports and supports Wi-Fi that compliance with 802.11b/g/n standard. All these capabilities deliver users an uninterrupted internet access. Easy deployment and comprehensive remote device management makes XWR2420 versatile in most of IoT/M2M applications.

PRODUCT SPECIFICATIONS

Cellular Specification	
Standard and Band	FDD-LTE: B1/B3/B7/B8/B20/B28A TDD-LTE: B38/B40/B41 WCDMA: B1/B8 EDGE: B3/B8
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 30Mbps DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76Mbps WCDMA: Downstream rate 384Kbps, uplink rate 384Kbps EDGE: Downstream rate 296Kbps, uplink rate 236.8Kbps GPRS: Downstream rate 107Kbps, uplink rate 85.6Kbps
Transmit Power	< 23dBm
Sensitivity	< -97dBm
Hardware System	
Module	Quectel EC25-EUX
CPU	ARMCortex-A7, 528MHz
Memory	128 MB DDR3 RAM and 128MB Flash
Extendable Storage	1× Micro SD Slot
Interface	
Cellular Interface	1 or 2× 50 Ω SMA Female Antenna Connectors
SIM Slots	1 or 2 (Mini SIM-2FF)
Ethernet Interface	2× 10/100M RJ45 ethernet port, Full or half duplex (Auto-Sensing), 1× WAN + 1× LAN or 2× LAN
POE (Optional)	2× 802.3af/at PoE PSE on LAN Ports
Serial (Optional)	1× RS232 (RS485 Hardware Optional)
Wi-Fi (Optional)	1× 50Ω SMA Connector (Center PIN : RP-SMA Female), IEEE802.11b/g/n · 2.4GHz, 802.11b:16 dBm+/-1.5 dBm (11Mbps), 802.11g:14dBm +/-1.5dBm (54Mbps) 802.11n:13 dBm+/-1.5 dBm (65Mbps,HT20/40MCS7)
GPS (Optional)	1× 50Ω SMA Connector (Center PIN :SMA Female), NMEA0183,PMTK
DI/DO (Optional)	1× DI (dry contact) + 1× DO (wet contact), Galvanic Isolation, 3.5mmTerminal Block, 0.3A@30VDC (DO)
Power Interface	2-pin 5.08mm Terminal Block
Reset Button	Can reset router's configuration to default factory setting by this button
LED Indicators	1×POWER,1×SYSTEM, 1×SIM, 1×Wi-Fi (optional), 3×Signal strength
Built-in	Watchdog ,Timer
Software	
Network Protocols	IPv4/IPv6,PPP,PPPoE,SNMPv1/v2c/v3,TCP,UDP,DHCP,RIPv1/v2, OSPF ,DDNS ,VRRP ,HTTP ,HTTPS ,DNS ,ARP ,QOS,SNTP ,Telnet ,VLAN , SSH ,etc.
VPN	DMVPN, IPsec,OpenVPN,PPTP,L2TP,GRE
Security	Access Control, DMZ ,Port Mapping ,MAC Binding ,SPI Firewalls, DoS & DDoS Protection ,Filtering (IP & Domain), IP Pass through
Management	Web,CLI,SMS,On-demanddialup,SNMPv1/v2/v3,DeviceHub
AAA	Radius, Tacacs +,LDAP ,Local Authentication
Multilevel Authority	Multiple Levels of User Authority
Reliability	VRRP,WAN Failover ,Dual SIM Backup
Serial Port	Transparent (TCP Client/Server, UDP),Modbus Master/Slave, Modbus Gateway (Modbus RTU to Modbus TCP)

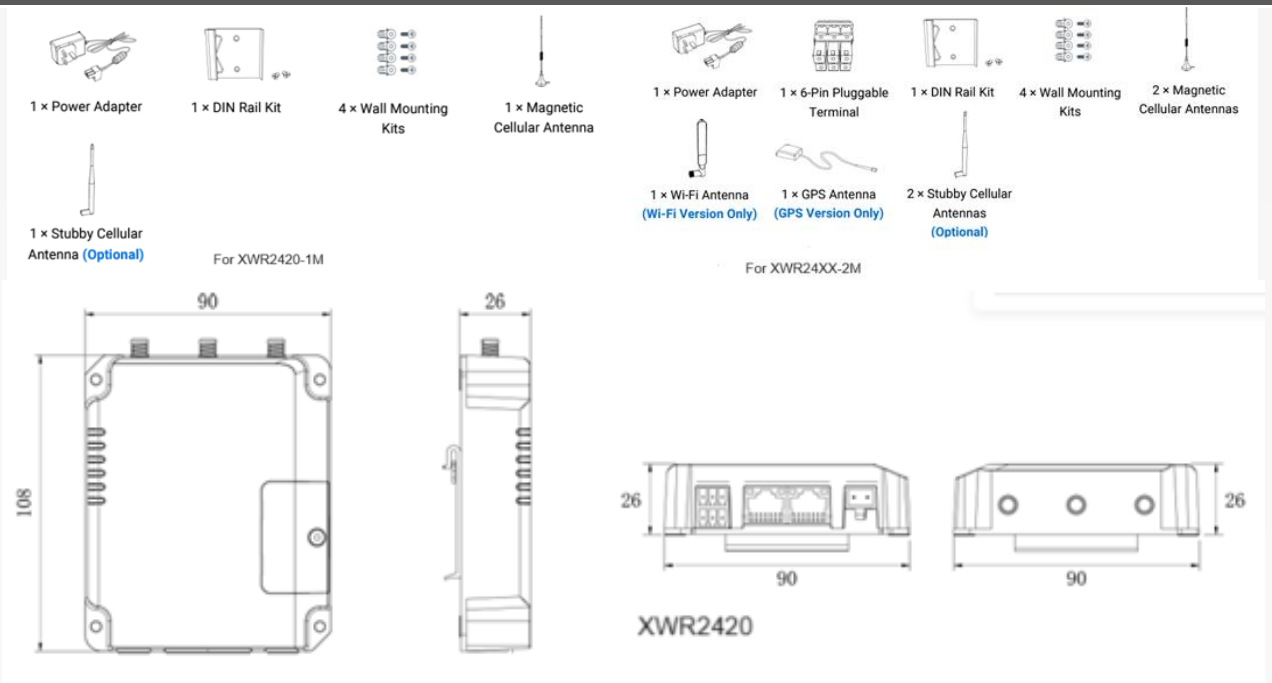
Power	
Input Voltage	DC 9-48, Surge protection, Reverse Polarity protection
Power Consumption	1.8W Typical, Max 2.2W (Non-POE mode) for Single SIM model 1.9W Typical, Max 2.4W (Non-POE mode) for Dual SIM Model

Physical Properties	
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications. Installation Desktop, Wall, and Din-Rail mounting
Dimensions	108x90x26mm (4.25x3.54x1.02 in)
Weight	271g

Environmental	
Operating Temperature	-40~+70℃
Storage Temperature	-40~+85℃
Relative Humidity	0-95% (non-condensing)
Ethernet Isolation	1.5 kV RMS

Approvals	
Regulatory	CE,FCC,RCM,NBTC,SPDDI
Carrier	PTCRB,AT&T
Environmental	RoHS
EMC	EN55032,EN55035
EMS	IEC 61000-4-2 Level 3, IEC 61000-4-3 Level 2, IEC 61000-4-4 Level 2, EMS IEC 61000-4-5 Level 2, IEC 61000-4-6 Level 3, IEC 61000-4-8 Level 1, IEC 61000-4-11 Level 3
Radio Frequency	EN 301 489-1/17/19/52, EN 301 511, EN 301 908-1/2/13, EN 303 413, Radio Frequency EN300 328
Safety	EN62368-1

Dimensions and Accessories



ORDER INFORMATION

Model	Technology	WAN	LAN	Serial	SIM	POE	Wi-Fi	GPS	DI/DO
XWR2420-1M	LTE Cat4	1	1	0	1	0	0	0	0
XWR2420-1M-P	LTE Cat4	1	1	0	1	1	0	0	0
XWR2420-2M	LTE Cat4	1	1	1	2	0	0	0	1
XWR2420-2M-G	LTE Cat4	1	1	1	2	0	0	1	1
XWR2420-2M-W	LTE Cat4	1	1	1	2	0	1	0	1
XWR2420-2M-P-W	LTE Cat4	1	1	1	2	1	1	0	1

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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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