

RELIABLE SECURE CONNECTIVITY

XWR4420 Series
2 Ports 4G LTE/5G Redcap Industrial Router





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FEATURE HIGHLIGHTS

- High-performance industrial-grade CPU / Wireless module
- Metal casing, IP30 protection level
- Wide range power input (DC 5~36V)
- Multiple protection mechanism to ensure system stability
- Ethernet interface with built-in 15KV ESD
- RS232/RS485 with built-in 15KV ESD
- SIM/UIM card slot with built-in 15KV ESD
- Power interface with built-in phase-reversal and over-voltage protection
- Antenna interface with optional lightning protection
- Supports multiple VPN protocols including IPsec, OpenVPN, and WireGuard
- Built-in MQTT gateway, supporting data transparent transmission to HTTP/MQTT/Azure cloud
- Supports SPI firewall
- Supports mounting remote file systems via SSH protocol
- Equipped with DDoS protection (SYN flood protection, SSH attack protection, Telnet attack protection)
- Flexible access control for SSH, Web interface, CLI, and Telnet
- Supports MODBUS TCP and Modbus RTU status/control, MQTT subscription and MQTT publishing
- Supports bridging and transparent transmission functions



PRODUCT DESCRIPTION

Agatel XWR4420 is an industrial-grade router featuring a high-performance processor and wireless module, running on an embedded real-time operating system. It offers versatile connectivity with 1 x RS232, 1 x RS485, 1 x Ethernet LAN, 1 x Ethernet WAN, DI/DO, and Wi-Fi. This router enables seamless data transmission between serial, Ethernet, and Wi-Fi devices. It supports dual SIM cards with intelligent switching for backup, making it perfect for industrial IoT and M2M applications, ensuring reliable and continuous connectivity



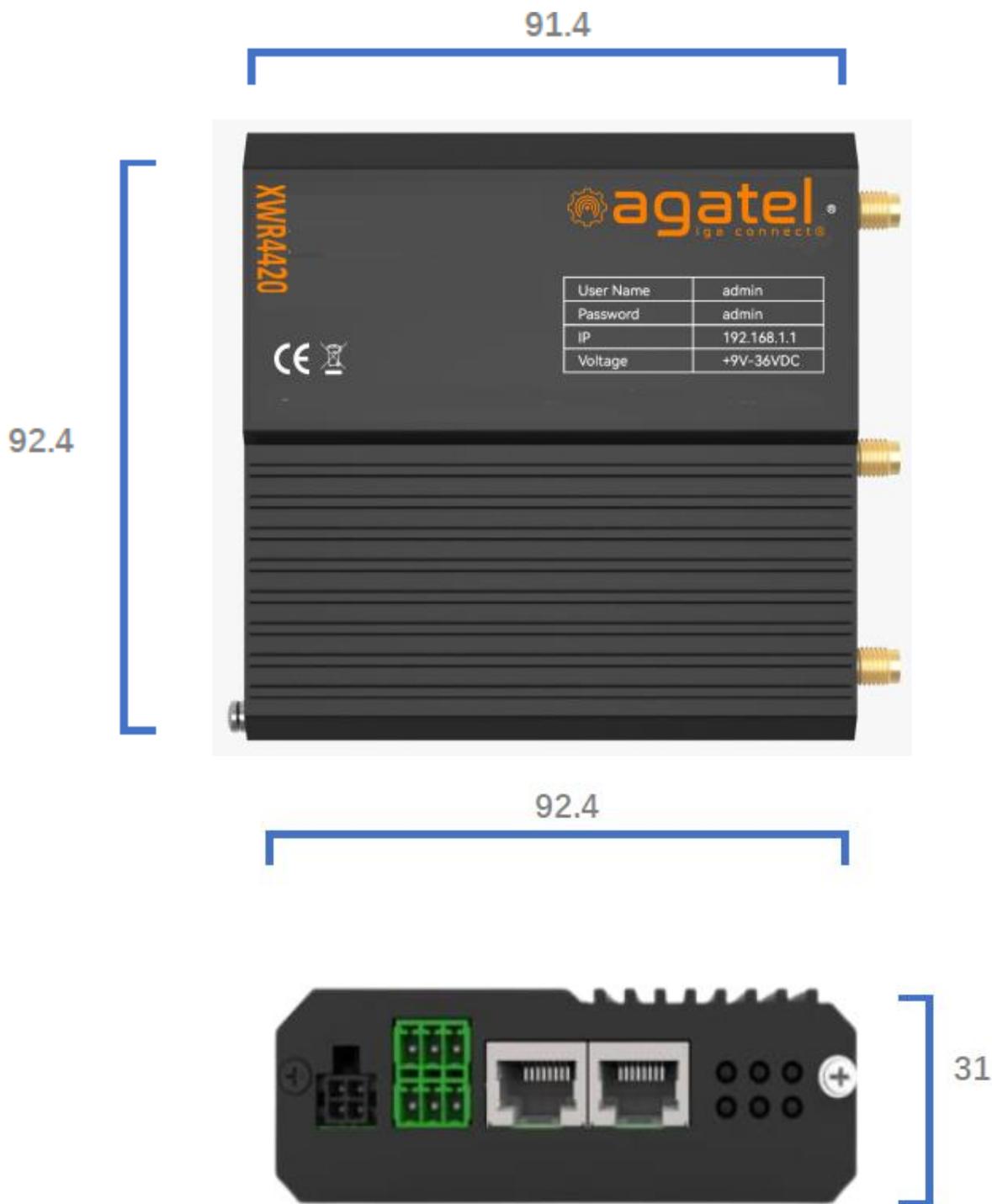


Cellular Specification	
Standards and Bands	XWR4420: Support FDD-LTE B1/B3/B5/B7/B8/B20/B28, B32(XWR24420-C6) Support TDD-LTE B38/B40/B41
	XWR4420: Support WCDMA: B1, B3, B5, B8
	XWR4420-R: 5G NR SA: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/38/40/41/48/66/70/71/77/78/79
	XWR4420-R: LTE FDD B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/70/71
Bandwidth	XWR4420-R: LTE TDD B34/38/39/40/41/42/43/48
	XWR24420 LTE: 150Mbps DL, 50Mbps UL, XWR4420-C6 LTE: 300Mbps DL, 50Mbps UL
	XWR4420 WCDMA: 42 Mbps DL, 5.7Mbps UL
	XWR4420-R 5G SASub-6: 223Mbps DL, 123Mbps UL
XWR4420-R LTE: 195Mbps DL, 105Mbps UL	
Hardware System	
CPU	Industrial-grade CPU
Flash	32MB (Optional)
DDR3	128MB
Interface	
Ethernet Interface	WAN: 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD, LAN: 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
POE	Passive POE LAN Port
Serial	1 x RS232, 1 x RS485 serial interface with built-in 15KV ESD
Wi-Fi	IEEE802.11b/g/n 2.4G, IEEE802.11b/g: 54Mbps (Maximum), IEEE802.11n: 144Mbps (Maximum), Support WEP, WPA, WPA2 and other encrypt methods, Power 15 ± 2dBm, Sensitivity < -72dBm @ 54Mbps
Antenna Interface	Cellular: 2 X Standard SMA female antenna interface, characteristic impedance 50 Ω, WIFI: 1 X Standard SMA male antenna interface, characteristic impedance 50 Ω
DI/DO	1xDI, 1xDO
SIM/UIIM Slots	2 X 2FF Standard SIM card slot
Reset Button	Can reset router's configuration to default factory setting by this button
Power Interface	Standard 4 pin terminal block interface, with built-in phase-reversal and over-voltage protection
LED Indicators	"PWR", "Online", "LAN", "WAN", "WIFI", "SYS"
Power	
Input Voltage	DC 12V/1.5A, DC 5~36V
Power Consumption	Standby: 95~135mA@12VDC Communicating: 165~220mA@12VDC
Physical Properties	
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications
Dimensions	91.4x92.4x31mm (excluding antennas and mountings)
Weight	200g
Environmental	
Operating Temperature	-40 ~ +75°C
Storage Temperature	-40 ~ +85°C
Relative Humidity	0-95% (non-condensing)
Approvals	
Regulatory	CE





DIMENSIONS



ORDERING INFORMATION

Model	Technology	WAN	LAN	Serial	SIM	POE	Wi-Fi	GPS	DI/DO
XWR4420	LTE Cat4	1	1	2	2	0	1	0	2
XWR4420-C6	LTE Cat6	1	1	2	2	0	1	0	2
XWR4420-R	5G Redcap	1	1	2	2	0	1	0	2





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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