

RELIABLE SECURE CONNECTIVITY

XWR6500G Series
Industrial LTE 5G Cellular Router





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FEATURE HIGHLIGHTS

- High-performance industrial-grade wireless module / 32-bit communication processor
- Metal shell, protection grade IP30
- Wide power input DC 9~36V
- WDT Watchdog design to ensure system stability
- 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
- SIM/UIM card interface built-in 15KV ESD protection
- Built-in reverse phase protection and over-voltage protection for power interface
- RS232, RS485, Ethernet, WIFI, WAN port (support standard PPPOE protocol)
- Intelligent data terminal, can enter data transmission state after power on
- Convenient system configuration and maintenance interface (WEB/CLI)
- Multiple WAN connection methods: static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, DHCP-4G/5G
- VPN client/server 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
- WIFI support 802.11b/g/n/ac, support WIFI AP /AP Client/bridge mode (optional)
- WIFI support WEP/WPA/WPA2 encryption
- Support multiple online and offline trigger modes
- Support APN/VPDN
- Support 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. Support URL filter. Support IPV6/IPV4





PRODUCT DESCRIPTION

XWR6500G is a wireless communication router for the Internet of Things, which uses public 3G/4G/5G networks to provide users with wireless long-distance big data transmission functions. The product has been widely used in the M2M industry in the IoT industry chain, such as smart grid, smart transportation, smart home, supply chain automation, industrial automation and other fields.



SPECIFICATIONS

Cellular Specification	
Module	Industrial grade wireless module
Frequency	5G NR: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79 LTE: B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/ B46/ B48/B71
Bandwidth	5G NR : DL 3.4Gbps, UL 350Mbps LTE Cat20 : DL 2.0Gbps, UL 150Mbps HSPA+ : DL 42Mbps, UL 5.76Mbps
Power	< 23dBm
Sensitivity	<-97dBm
WIFI Specification	
Frequency	IEEE802.11b/g/n, 2.4G, AP mode, Station mode (Optional) IEEE802.11ac, 5.8G, AP mode, Station mode (Optional)
Bandwidth	IEEE802.11b/g : 54Mbps IEEE802.11n : 300Mbps IEEE802.11ac : 866Mbps
Security	WEP, WPA, WPA2 encryption, WPS (Optional)
Power	26dBm (11b), 21dBm (11ac/MCS7/HT40), 20dBm (11ac/MCS9/HT80)
Sensitive	<-72dBm@54Mbps
Interfaces	
WAN	1 x 10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection Remarks: Can be used as LAN port
LAN	1*10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial	1 x RS232/RS485, Built-in 1.5KV electromagnetic isolation protection Data bit : 5, 6, 7, 8 Stop bit : 1, 1.5 (Optional), 2 Check : NONE, EVEN, ODD, SPACE (Optional) Baud rate : 2400~115200bits/s
CAN	1*CAN2.0
Indicators	"WIFI", "Online", "PWR", "SYS"
Antenna	Cellular : 4 standard SMA female antenna interfaces, characteristic impedance 50 ohms WIFI : 2 standard SMA male antenna interfaces, characteristic impedance 50 ohms GPS: 1 calibrated SMA female antenna interface, characteristic impedance 50 ohms (optional)
SIM/UIM	Standard drawer type user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection Support dual SIM card
Power	Terminal power socket
Reset button	Through this button, the parameter configuration can be restored to the factory



Power Suplay	
Standard	DC 12V/1.5A
Range	DC 9~36V
Consumption	<1.2A (12V)
Standard	DC 12V/1.5A
Physical Properties	
Shell	Metal shell, IP30
Size	x 110 x 43mm 135 (Does not include antenna and mounting parts)
Weight	500g
Others	
Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (No condensation)

GPS (OPTIONAL)	
GPS Module	Industrial GPS module
Receiver Type	50 channels, GPS L1 (1575.42MHz) C/A code Support WAAS, EGNOS, MSAS, GAGAN, compatible with GALILEO
Maximum Update Rate	4Hz
Accuracy	SBAS : 2.0mCPE Locate : 2.5mCPE
Capture	Cold start: 29S Warm start: 29S Auxiliary start: <1S Hot start: <1S
Sensitive	Tracking: -160dBm Recapture: -160dBm Cold start: -144dBm
Timing Accuracy	RMS : 30ns 99% : <60ns Graininess : 21ns
Time Pulse	0.25~1000Hz
PPS	Support, the rising edge of the pulse is aligned with UTC time





ORDER INFORMATION

Model	Cellular	Ethernet	SFP	Wi-Fi	SIM	GPS	I/O
XWR6520G	LTE 5G NR	2	0	1	2	0	0





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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