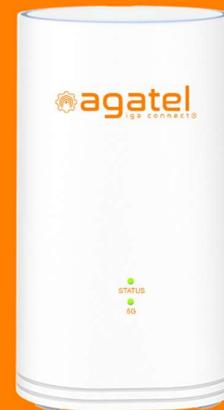


# RELIABLE SECURE CONNECTIVITY

**XIG6520G Series**

**2-Port Industrial 5G IP76 Modbus CPE**





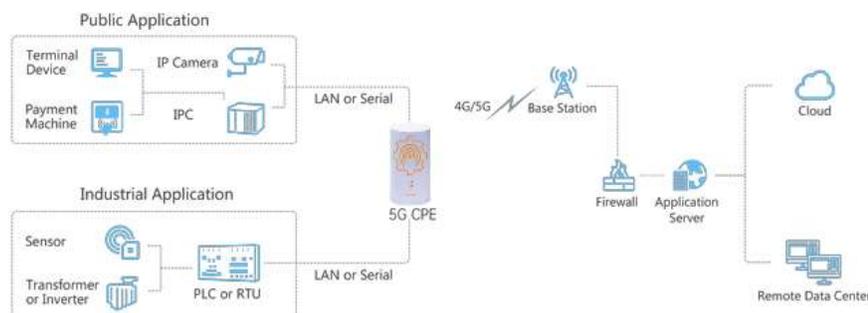
## XIG6520G Series

2-Port Industrial 5G IP76 Modbus CPE



### FEATURE HIGHLIGHTS

- Industrial-grade quad-core CPU ARM Cortex-A55 with big memory, providing high performance for data transmission.
- Global 5G NSA&SA/4G LTE network for backup among multiple carrier networks.
- Dual carrier aggregation (2CC CA) in the 5G Sub-6GHz, wider signal coverage with download speed up to 4.67 Gbps.
- Plug& play, supply lightning transmission via Gigabit Ethernet ports or USB Type-C interface.
- Support Wi-Fi 6, allows 2.4 GHz & 5 GHz dual band concurrent connections up to 3.6 Gbps download speed.
- Automated failover/failback backup among Ethernet, Cellular and Wi-Fi.
- Secure transmission with VPN tunnels like IPsec/OpenVPN.
- Embedded with hardware watchdog to automatically recover from various failures, ensures highest level of availability.
- Equipped with multiple security protection measures such as ACL, DMZ, SYN-Flood protection, and data filtering.
- Wide operating temperature range from -30°C to 60°C and industrial design for harsh environment.
- Equipped with optional I/O, Serial port, PoE, GPS for industrial transmission applications.
- Fast and user-friendly programming by Node-RED development tool.



### PRODUCT DESCRIPTION

XIG6520G 5GCPE is dedicated to cost effective solutions for 5G wireless networking applications. Adopting a high-performance and low power consumption industrial platform of quad-core CPU and 5G cellular module, XIG6520G supports the global WCDMA, 4G LTE, 5G Sub-6 GHz SA and NSA network and Wi-Fi 6, to provide ultra-fast network to ensure the extremely safe and reliable connection to the wireless network. With IP67 waterproof enclosure, various kinds of installation methods, and authentic design, XIG6520G is competent to both indoor and outdoor applications. Meanwhile, XIG6520G also supports 2-port Gigabit Ethernet switch, RS232/RS485 serial ports and Digital input/Digital output, which enable you to scale up M2M applications combining data collection and high-speed transmission in a limited time and budget. XIG6520G is particularly suitable for smart offices, video surveillance, digital media implementations, industrial automation, traffic applications, robots and so on.





## PRODUCT SPECIFICATIONS

Cellular Specification	
Network	5G NRSA & NSA/4GLTE/WCDMA 5G Sub-6: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78
Frequency	LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE TDD: B38/B40/B41/B42/B43
Antenna	8 × internal antennas
SIM Slot	1 ( Micro SIM-3FF )
Hardware System	
CPU	Quad-core ARM Cortex-A55, 2GHz
Memory	1GB LDDR4 x RAM and 1GB NAND Flash
Interface	
Ethernet Interface	1 × 10/100/1000 RJ45 Ethernet port, adaptive MDI/MDIX, 1 × WAN + 1 × LAN
POE	1 × 802.3af/at PoE PD on LAN Ports
Serial	1 × RS485, 3.5mm Terminal Block, 300bps to 230400bps
Wi-Fi	4 × internal antennas, IEEE802.11b/g/n/ax 2 × 2 MIMO, 2.4GHz, IEEE802.11a/n/ac/ax 2 × 2 MIMO, 5GHz, 2.4GHz:1200Mbps, 5GHz:2400Mbps, AP Mode, WEP/WPA/WPA2/WPA3 authentication, WEP/TKIP/AES encryption
GPS	1 × Internal antenna, GPS/GLONASS/Beidou/Galileo/QZSS
DI/DO	1 × DI (dry contact) + 1 × DO (wet contact), Galvanic Isolation, 3.5mm Terminal Block, 0.3A@30VDC (DO)
USB	1 × USB3.0 (Type-C) for Power Supply, Network Supply and Debug
Reset Button	1 × Reset
Power Interface	2 -pin 5.08mm Terminal Block
Built-in	Watchdog, Timer
LED Indicators	1 × STATUS, 1 × Cellular Network
Software	
Network Protocols	IPv4/IPv6, TCP, UDP, DHCP, HTTP, HTTPS, ARP, NTP, DNS, ARP, SSH, VLAN, DDNS, SNMP, MQTT, etc.
VPN	IPsec, OpenVPN, PPTP, L2TP
Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS & DDoS Protection, Filtering (IP & Domain), IP Pass through
Management	Web, SMS, Device Hub
App	Node-RED
Multilevel Authority	Multiple Levels of User Authority
Reliability	WAN Failover
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 or 802.3at PoE PD
Power Consumption	Without Wi-Fi: Typical 4.8W, Max 6.5W With Wi-Fi: Typical 9.9W, Max 14.4W



Physical Properties	
Casing	Polycarbonate + Cast Aluminium, IP76 protection level
Dimensions	No Waterproof Connector: $\phi 105 \times 110 \times 187$ mm ( $\phi 4.13 \times 4.33 \times 7.36$ in) With Waterproof Connector: $\phi 105 \times 110 \times 218$ mm ( $\phi 4.13 \times 4.33 \times 8.58$ in)
Environmental	
Operating Temperature	-30 ~ +70°C
Storage Temperature	-40 ~ +85°C
Relative Humidity	0-95% (non-condensing)
Ethernet Isolation	1.5 KV RMS
Approvals	
Regulatory	CE, RCM
Environmental	RoHS



## DIMENSIONS & ACCESSORIES

### ◆ Accessories



1 x PoE Injector



1 x 8-Pin Pluggable Terminal



1 x Mounting Bracket



4 x Rubber Feet



1 x Bottom Cover with Cable Gland



1 x Waterproof Rubber Ring

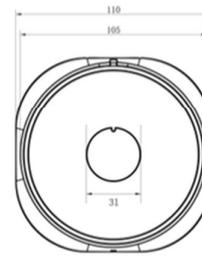
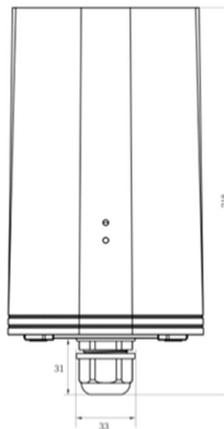
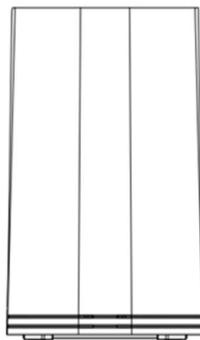


4 x Wall Mounting Kits



2 x Hose Clamps

### ◆ Dimensions (mm)



## ORDERING INFORMATION

Model	Technology	WAN	LAN	Serial	SIM	POE-PD	Wi-Fi	GPS	DI/DO
XIG6520G	5G	1	1	1	1	1	1	1	2





## WHO WE ARE

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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

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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

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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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