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RELIABLE SECURE CONNECTIVITY

XWR5550G Series

5-Port 5G Industrial Modbus Router



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FEATURE HIGHLIGHTS

- High-performance industrial-grade wireless module
- High-performance industrial-grade communication processor Metal casing, protection level is IP30
- WDT Watchdog design to ensure system stability
- 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, 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, Antenna interface lightning protection (Optional)
- Reserve eSIM
- Intelligent data terminal, can enter data transmission state after power on
- Convenient system configuration and maintenance interface (local, WEB or CLI) Supports DIN rail and wall mounted installation
- Support multiple WAN connection methods (static IP, DHCP, PPPOE, etc.)
- Support 3G/4G/5G and wired WAN dual link intelligent switch backup function (optional) Support VPN client (PPTP, L2TP, IPSEC)
- Support VPN sever (PPTP, L2TP, IPSEC)
- Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS
- Support NTP, built-in RTC
- Support VLAN, MAC address clone
- Support WIFI AP mode, client mode, bridge mode (Optional)
- WIFI supports 802.11b/g/n/ac, support WIFI AP, AP Client, and other working modes (Optional) WIFI supports multiple encryption methods (WEP, WPA, WPA2, WPA3, MAC address filtering)
- Support APN/VPDN
- Support multiple DHCP server and DHCP client
- Support DHCP binding MAC address/DDNS/NAT/DMZ/QOS, traffic statistics, etc.
- Built-in various communication protocols (Modbus RTU/Modbus TCP). Supports encryption modes such as DES and 3DES, and supports VRRP hot backup.

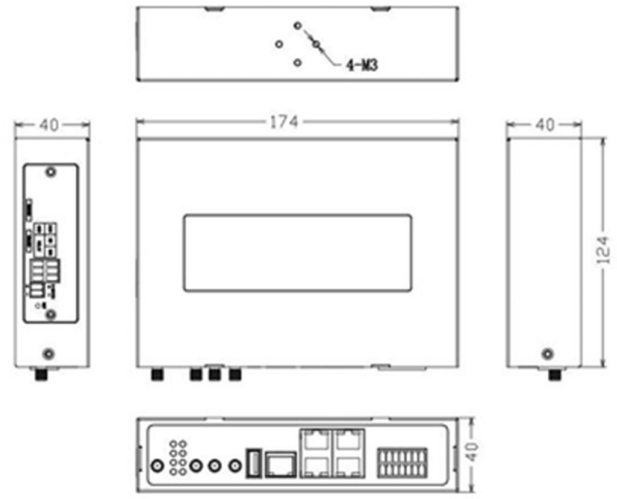
PRODUCT DESCRIPTION

Agatel XWR5550G is a 5G IoT wireless intelligent Router that provides users with wireless long-distance big data transmission using a public 3G/4G/ 5G network.
XWR5550G can be connected to multiple manufacturers' IOT platform SCADA systems. It can connect intelligent devices such as smart meters and PLCs through RS232/RS485/Ethernet ports. Its main function is to process uplink and downlink information and complete the forwarding and passing of different protocols. The MQTT way connects to the Internet of Things platform.

PRODUCT 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：108Mbps IEEE802.11n：300Mbps IEEE802.11ac：780Mbps
Security	WEP, WPA, WPA2, WPA3
Power	26dBm (11b), 21dBm (11ac/MCS7/HT40), 20dBm (11ac/MCS9/HT80)
Sensitive	<-72dBm@54Mbps
Interfaces	
WAN	1 x 1000M ETH port, auto adapt MDI/MDIX, built in 1.5KV ESD
LAN	4 x 1000M ETH port, auto adapt MDI/MDIX, built in 1.5KV ESD
Console	1 x RS232/RS-485 , Built in 15KV ESD： Data bit：5, 6, 7, 8 Stop bit：1, 1.5 (Optional), 2 check：NONE, ODD, EVEN, SPACE (Optional) and MARK (Optional) Baud rate ：2400~115200bits/s
Indicators	"PWR", "SYS", "WiFi","SIM", "Online", "Signal Strength"
Antenna	Cellular：4 x SMA female, characteristic impedance 50 ohms WIFI：2 x SMA male, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type(2 x SIM slot), 1.8V/3V SIM/UIM,15KV ESD protection
Power	2.5mm DC interface built-in power reverse protection
TF card	Micro SD card interface
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	172x122x38 mm (Does not include antenna and mounting parts)
Weight	700g
Others	
Operating Temperature	-35~+75℃（-31~+167℉）
Storage Temperature	-40~+85℃（-40~+185℉）
Relative Humidity	95% (No condensation)

DIMENSIONS & ACCESSORIES



DIN Rail:



ORDERING INFORMATION

Model	Technology	WAN	LAN	Serial	SIM	POE	Wi-Fi	GPS	DI/DO
XWR5550G	5G	1	4	1	2	0	1	0	3

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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