

# RELIABLE SECURE CONNECTIVITY

**XWR7550G Series**

**Industrial LTE 5G cellular IP76 Gigabit Router**





## XWR7500G Series

### Industrial LTE 5G cellular IP76 Gigabit Router



#### FEATURE HIGHLIGHTS

- High-performance industrial-grade wireless module / 32-bit communication processor
  - Metal shell, protection grade IP30. Metal housing and system safety isolation, Wide power input DC 9~36V
  - 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, in line 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
  - Standard RS232, RS485, Ethernet and WIFI Interface, Standard WAN port (support standard PPPOE protocol), which can be directly connected to ADSL equipment
  - Intelligent data terminal, can enter data transmission state after power on Easy to use, flexible, multiple working mode options
  - Convenient system configuration and maintenance interface (WEB/CLI) Support wall-mounted, pole-mounted installation
  - Multiple WAN connection methods, include static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, DHCP-4G/5G, 3G/4G/5G and wired WAN dual link backup (optional)
  - VPN client PPTP/L2TP/IPSEC (only available in VPN version) VPN sever 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
  - MAC address clone
  - WIFI support 802.11b/g/n/ac, support WIFI AP /AP Client/bridge mode etc.
- (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, access control, URL filter, IPV6/IPV4, 5G LAN, lock frequency, lock resident, EOIP, bridge mode, VxLAN, virtual IP, GRETAP, etc, traffic statistics, VLAN management, and VLAN division





## PRODUCT DESCRIPTION

XWR7550G is a 5G industrial CPE for the Internet of Things (IoT), it uses a high-performance industrial level 32-bit communication processor and wireless module, embedded with the real-time operating system as the software platform, and using 3G/4G/5G cellular network to provide users with wireless long-distance large data transmission function.



## 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 Remarks: Different modules support different network standards
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 (Option) IEEE802.11ac, 5.8G, AP mode, Station mode (Option)
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
Hardware System	
CPU	Industrial-grade 32-bit communication processor
FLASH	Nor flash 16MB NAND flash 128MB
DDR3	512MB
Interfaces	
WAN	1 x 1000M ETH port (RJ45water proof), auto adapt MDI/MDIX, built in 1.5KV ESD
LAN	1 x 1000M ETH port (RJ45water proof), auto adapt MDI/MDIX, built in 1.5KV ESD
Optical Fiber	1 x 1000M fiber interface (External all-plastic waterproof interface) Auto adapt MDI/MDIX, built in 1.5KV ESD
Serial	1 x RS232/RS485 serial port (External all-plastic waterproof interface), built in 1.5KV 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", "2.4G", "5.8G", "Online", "Signal" Remarks: Built-in indicator light
Antenna	Cellular : 4 x waterproof SMA female antenna, characteristic impedance 50 ohms WIFI : 4 x waterproof SMA male antenna, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type, 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
Power	Terminal interface, built-in power reverse protection
USB	USB2.0 (Built-in)
Reset button	Through this button, the parameter configuration can be restored to the factory

<b>Power Suplay</b>	
<b>Standard</b>	DC 12V/1.5A and Support POE (802.3af) power supply
<b>Range</b>	DC 9~36V
<b>Consumption</b>	<1.2A (12V)
<b>Physical Properties</b>	
<b>Shell</b>	Metal shell, protection grade IP68
<b>Size</b>	259x259x45 mm (Does not include antenna and mounting parts)
<b>Weight</b>	2480g
<b>Others</b>	
<b>Operating Temperature</b>	-35~+75°C (-31~+167°F)
<b>Storage Temperature</b>	-40~+85°C (-40~+185°F)
<b>Relative Humidity</b>	95% (No condensation)





## ORDER INFORMATION

Model	Cellular	Ethernet	SFP	Wi-Fi	SIM	GPS	I/O
XWR7550G	LTE 5G NR	5	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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