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# RELIABLE SECURE CONNECTIVITY

## XWR2220 Series

### 2-Port LTE Cat-1 Industrial Router



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## 2-Port LTE Cat-1 Industrial Router

## 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
- Wired WAN interface (support standard PPPOE protocol)
- Intelligent data terminal, automatically enter transmission status after power-on
- Support dual-link intelligent switching function between primary card and backup card
- Support various WAN connection type, including static IP, DHCP, PPPOE, 2.5G/3G/4G
- Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, etc.
- Support various network protocols including TCP/IP, UDP, FTP (optional), HTTP, etc.
- Support SPI firewall, VPN traversal, access control, URL filtering, etc.
- Support 802.11 b / g / n WIFI network, support WIFI AP, AP Client, Bridge etc.

## PRODUCT DESCRIPTION

XWR2200 LTE Cat-1 Industrial Router is an innovative wireless communication router with a compact design and low-cost effectiveness. It is using public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long-distance, wireless and large data transmission functions for users. The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart home, finance, etc.

# PRODUCT SPECIFICATIONS

| Hardware Specifications | |
|---|---|
| Standard and Band | Support FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 Support TDD-LTE B38/B39/B40/B41 |
| | Support TD-SCDMA: B34, B39 |
| | Support HSPA+/UMTS B1/B2/B5/B8 Support EV-DO: BC0 |
| | CDMA 1x: BC0 |
| | Support EDGE/GPRS/GSM 850/900/1800/1900MHz |
| | Support FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 Support TDD-LTE B38/B39/B40/B41 |
| | Support TD-SCDMA: B34, B39 |
| | |
| Bandwidth | LTE FDD ：10MbpsDL/5Mbps UL |
| | TD-HSPA+: Downstream rate 4.2Mbps, uplink rate 2.2Mbps |
| | UMTS: 384Kbps |
| Transmit Power | < 23dBm |
| Sensitivity | < -97dBm |

| WIFI Specifications | |
|---|---|
| Standard and Band | IEEE802.11b/g/n |
| Bandwidth | IEEE802.11b/g: 54Mbps (Maximum)<br>IEEE802.11n: 144Mbps (Maximum) |
| Security | Support WEP, WPA, WPA2 encrypt methods, optional WPS function |
| Transmit Power | 15 ± 2dBm |
| Sensitivity | < -72dBm @ 54Mbps |

| Hardware System | |
|---|---|
| CPU | Industrial-grade CPU |
| Flash | 16MB, 128MB (Optional) |
| DDR2 | 128MB |

| Interface | |
|---|---|
| WAN Interface | 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD |
| LAN Interface | 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD |
| Serial | 1 x RS232/485 serial interface with built-in 15KV ESD Data bits:5, 6, 7, 8 bits<br>Stop bits:1, 1.5 (Optional), 2 bits<br>Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional)<br>Serial Port Rate: 2400~115200bits/s |
| LED Indicators | “PWR”, “Online”, “LAN”, “WAN/LAN”, “WIFI” |
| Antenna Interface | Cellular: Standard SMA female antenna interface, characteristic impedance: 50 Ω<br>WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω |
| SIM/UIM Slot | Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD, support dual-SIM card<br>(Optional) |
| Power Interface | Standard 3.5mm terminal block interface, with built-in phase-reversal and over-voltage protection |
| Reset Button | Can reset router’s configuration to default factory setting by this button |

| | |
|---|---|
| **Power** | |
| Input Voltage | DC 12V/1.5A |
| Accepted Range | 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 | 93x89x24mm (excluding antennas and mountings) |
| Weight | 250g |
| **Others** | |
| Operating Temperature | -35~+75℃ |
| Storage Temperature | -40~+85℃ |
| Relative Humidity | 95% (non-condensing) |







Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

## ORDER INFORMATION

| Model | Technology | WAN | LAN | Serial | WIFI | SIM/UIM |
|---|---|---|---|---|---|---|
| XWR2220-1M | LTE Cat1 | 1 | 1 | 1 | 0 | 1 |
| XWR2220-1M-W | LTE Cat1 | 1 | 1 | 1 | 1 | 1 |
| XWR2220-2M-W | LTE Cat1 | 1 | 1 | 1 | 1 | 2 |

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## 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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