

The RT620 series is a rugged, Programmable cellular-enabled Remote Terminal Unit (RTU) Gateway designed for demanding IoT/M2M applications across industries such as Smart City, Remote Monitoring, Automation, Environmental Protection, and Water Conservancy. Built with a compact, protective metal casing, it ensures reliable performance in harsh environments while simplifying deployment and maintenance.

It supports versatile interfaces including LAN/WAN, RS232/RS485, analog inputs (4–20mA/0–5V), and digital inputs for sensors like temperature monitors, door switches, or smoke detectors. Programmable functionality allows customization of DI/AI interfaces and Modbus properties, making it adaptable to diverse applications.



Robust Connectivity & Protocol Support

- Industrial-grade 4G/3G cellular module with APN/VPDN private network compatibility.
- 1 WAN/LAN and 1 LAN port, support standard routing features.
- Standard TCP/IP, HTTP/HTTPS and VPN protocols support.
- Integrated MQTT and Modbus RTU protocols for seamless integration.



Advanced Features

- Optional built-in GPS and data storage for location tracking and offline reliability.
- Real-time clock (RTC) for time-stamped data logging.
- Support WLINK M2M Platform remote management.



Versatile I/O & Programmability

- 3 RS485 ports
- 12 analog inputs (AI)
- 16 digital inputs (DI)
- 24V/12V/5V Power Output for sensors.
- 2 Relays for external control.
- Programmable local script



Industrial Durability & Flexibility

- Rugged metal housing with optimized EMC design for harsh environments.
- Wide-range voltage input and operating temperature.
- Pluggable industrial terminal blocks for easy installation and maintenance.

SPECIFICATION

Hardware			
Cellular Optional	<ul style="list-style-type: none"> FDD 4G/TDD 4G HSPA/UMTS 	LED Indication	<ul style="list-style-type: none"> NET WAN LAN Wi-Fi RS485 PWR SYS
Interface	<ul style="list-style-type: none"> Cellular Antenna: SMA-K(Female) GPS Antenna: SMA-K(Optional) Standard Micro SIM/R UIM interface 1 LAN 1 WAN 1 USB 	Consumption	<ul style="list-style-type: none"> Voltage: DC +7.5~32V (standard 24V/1A power adapter) SIM/R-UIM Card: 3V Consumption Transfer mode: 180mA/24v (Average), Idle mode: 100mA/24V (Max)
Serial Port	<ul style="list-style-type: none"> 1 RS232, RXD,TXD,GND 3 RS485, A, B 	I/O	<ul style="list-style-type: none"> 12 DI, Dry contact 4 DI, Wet contact(0~5V) 12 AI, 4~20mA, 0~5V, 12bits Resolution 2 Relay
Device Management	<ul style="list-style-type: none"> GUI Support parameter configuration and firmware Upgrade via WLINK RTU Platform Support remote parameters configuration by SMS 	Other	<ul style="list-style-type: none"> Dimension: 236mm x125m x 40mm (not including antenna) Weight: 500g (not including accessories) Operation temperature: -30~+75°C Store temperature: -40~+85°C Related humidity: 0~95% (non-condensing) Guarantee: one year

Typical Application

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| <ul style="list-style-type: none"> Refrigerator Vehicle Monitoring Oil field Coal mine Security Monitoring | <ul style="list-style-type: none"> Environment Protection Water Conservancy Heating & Natural gas Power SCADA |
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