WLINK

WL-RT620 Programmable RTU Gateway

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.

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

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.

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	• FDD 4G/TDD 4G • HSPA/UMTS	**LED Indication**	• NET • WAN • LAN • Wi-Fi • RS485 • PWR • SYS
Interface	• Cellular Antenna: SMA-K(Female) • GPS Antenna: SMA-K(Optional) • Standard Micro SIM/R UIM interface • 1 LAN • 1 WAN • 1 USB	**Consumption**	• 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	• 1 RS232, RXD,TXD,GND • 3 RS485, A, B	**I/O**	• 12 DI, Dry contact • 4 DI, Wet contact(0~5V) • 12 AI, 4~20mA, 0~5V, 12bits Resolution • 2 Relay
Device Management	• GUI • Support parameter configuration and firmware Upgrade via WLINK RTU Platform • Support remote parameters configuration by SMS	**Other**	• Dimension: 236mm x125m x 40mm (not including antenna) • Weight: 500g (not including accessories) • Operation temperature: -30~+75℃ • Store temperature: -40~+85℃ • Related humidity: 0~95% (non-condensing) • Guarantee: one year

Typical Application

• Refrigerator Vehicle Monitoring • Oil field • Coal mine • Security Monitoring	• Environment Protection • Water Conservancy • Heating &Natural gas • Power SCADA