

# H5110-L Remote Terminal Unit

H5110-L RTU is an industrial remote telemetry terminal integrating data acquisition, remote control, snapshot capture and 4G cellular communication. Centered on high-performance & low-power MCU, it is equipped with diversified interfaces including RS232, RS485, analog input, digital switch input and power output, to realize integrated functions of data collection, equipment control, alarm triggering and data transmission. Parameters and connected sensors can be configured via dedicated debugging APP for easy, convenient and efficient operation.

## Core Parameters

|                       |  |
|-----------------------|--|
| 4G                    | 4G Cellular                                      |
| Operating System      | LTE-FDD B1/3/5/8, LTE-TDD B34/38/39/40/41        |
| Antenna Interface     | SMA-K Female                                     |
| SIM Slot              | Nano-SIM Socket                                  |
| Interfaces            | 2×RS232, 2×RS485, 2×12VDC relay control output   |
| Analog Input          | 4~20mA standard analog signal input              |
| Digital Input         | Rain gauge / dry contact digital input           |
| Operating Voltage     | 9~32VDC input, default rated at 12VDC            |
| Operating Current     | ≤13mA @12VDC (5min sampling + 5min upload cycle) |
| Operating Temperature | -30~+75°C  |
| Relative Humidity     | 95%RH (non-condensing)                           |

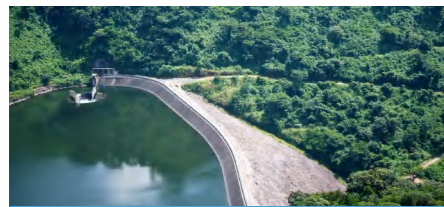
## Application Scenarios



Pump Station Monitoring



Soil Moisture Monitoring



Reservoir and Dam Safety Monitoring



Hydrological and Water Resources Monitoring



### Remote O&M

Enables remote device management & real-time running status monitoring via cloud platform



### Ultra-Low Power Consumption

Optimized embedded hardware & firmware; average current ≤13mA (excluding external sensors), ideal for outdoor solar-powered applications



### Protocol Compliance

Compliant with national protocols for hydrological & water resource monitoring data transmission; customizable for provincial local communication protocols



### Multi-Communication Modes

Built-in full-network 4G, optional Beidou satellite communication module



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### Easy Device Configuration

Bluetooth-enabled APP configuration; full parameter setup via smartphone



### Auto Sensor Recognition

Multi-type interfaces compatible with mainstream sensors; auto-detect connected sensors once wired to corresponding acquisition ports