

## AltRTU600P Industrial Pipeline Cellular RTU Specification

Support 5G/4G/3G/2G industrial data acquisition instrument



AltRTU600P is an industrial pipeline cellular RTU based on 5G/4G LTE connectivity with IP68, anti-corrosion and explosion protection. It uses high performance industrial 32-bit processor and industrial wireless 5G/4G module, and takes embedded real-time operating system to realize comprehensive functions such as data acquisition, storage, display, control, alarm, remote transmission and remote management.

AltRTU600P supports RS232, RS485, Analog Input, Digital Input (dry or wet contacts), Controllable Power Output. It supports internal flash to store data, and network communication through 5G or 4G, NB-IoT, Lora, Ultra-short wave and other ways. It is powered by a battery. It has powerful functions, stable performance, and supports low power consumption working mode.

AltRTU600P focuses on monitoring the pressure, water level, flow rate, rainwater pipeline, and gas pipeline, gas transmission and so on.

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### Product advantage

- ✓ Remote measurement current Water Level, Pressure, Flow rate, Water Quality, and other data
- ✓ Alarm trigger and upload Water Level, Pressure, Flow rate, Water Quality, and other data
- ✓ Support local storage Water Level, Pressure, Flow rate, Water Quality, and other data
- ✓ Remote query local historical data, local historical data exportion
- ✓ LCD supports to view the local monitoring data
- ✓ Powered by battery, and low battery voltage alarm
- ✓ Support BLE connection to mobile phone and parameter configuration by APP
- ✓ Support local manual setting data
- ✓ Backup data through 5G/4G network data communication and SMS
- ✓ Built in temperature sensors
- ✓ Support GPS positioning (optional)

**Interface description**

**Serial ports:** 1 RS232 and 1 RS485(Aviation terminal)  
**Debug serial:** 1 RS232(Aviation terminal)  
**Antenna:** Standard SMA female interface, 50 ohm  
**SIM/UIM:** Elastic standard Nano-SIM  
**Wake up button:** Tact switch  
**LCD screen:** 128\*64 dot matrix LCD  
**LED indicator:** Run, Online  
**ADC:** 2 channels analog input, 4-20mA & 0-5V  
**DI:** 2 channels digital input (optical isolation)  
**Power output:** 2 channels controllable output power supply(single channel rated output current 0.1A, 2 channels rated output current total 1A, built-in overcurrent protection)

**Electrical parameters**

**Power supply:** Lithium thionyl chloride battery(Nominal 7.2V, 38Ah/76Ah/152Ah, 76Ah is recommended), or rechargeable Lithium battery(Nominal 7.4V, 38Ah/76Ah)  
**Communication current (Avg):** <100mA (@DC 7.2V, 4G)  
**Collection current(Avg):** <10mA (@DC 7.2V)

**Standby current(Avg):** <1.9mA (@DC 7.2V)  
**Sleep current(Avg):** <45uA (@DC 7.2V)  
**Battery life:** About 5 year(76Ah, Collection every 15 minutes, Upload every 60 minutes)

**Environmental parameters**

**Operating temperature:** -35~+75°C(-31~+167°F)  
**Storage temperature:** -40~+85°C(-40~+185°F)  
**Relative humidity:** 95% (non-condensing)

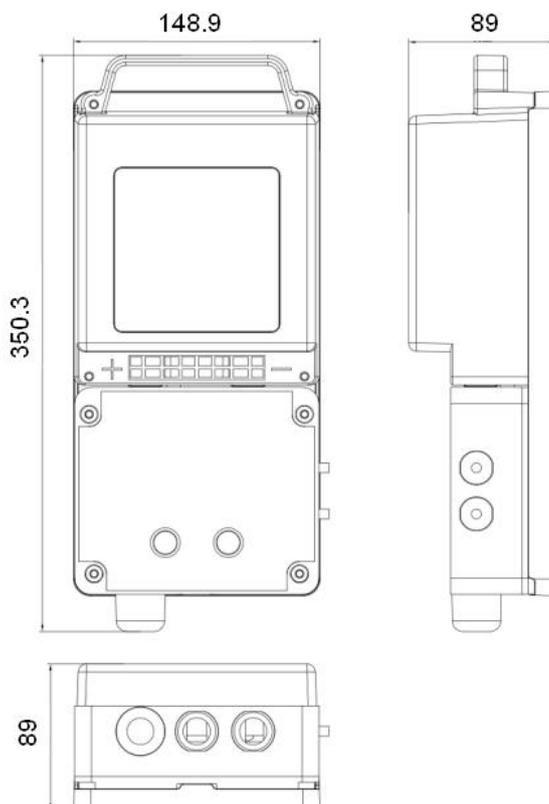
**Mechanical parameters**

**Shell material:** PC+ABS  
**Dimensions:** 350.3\*148.9\*89mm (excluding accessories)  
**Weight:** About 3100g (Host machine+76Ah battery)  
**Installation:** Wall Mounting

**Supported Wireless Bands**

5G NR SA/NSA:n1/2/3/5/7/8/12/20/28/41/66/71/77/78/79  
 TDD-LTE:B38/39/40/41  
 FDD-LTE:B1/2/3/4/5/7/8/13/17/20/25/28  
 WCDMA:850/900/1900/2100MHz  
 TD-SCDMA:1880-1920/2010-2025MHz(A/F)  
 CDMA2000 1x/ EVDO Rev. A:800/1900MHz  
 GSM/GPRS/EDGE:850/900/1800/1900MHz  
 CDMA:800/1900MHz

Dimension: (Unit: mm)



**Applicable Models:**

Product Type	Model	Product Name
<b>Standard</b> ( low-power consumption)	AltRTU600P-R	5G industrial cellular RTU
	AltRTU600P-L	5G Redcap industrial cellular RTU
	AltRTU600P-A	4G industrial cellular RTU
	AltRTU600P-F	4G FDD industrial cellular RTU
	AltRTU600P-Q	4G FDD/TDD industrial cellular RTU
	AltRTU600P-H	4G Cat1 industrial cellular RTU
<b>GPS</b> ( low-power consumption)	AltRTU600P-RP	GPS+5G industrial cellular RTU
	AltRTU600P-LP	GPS+5G Redcap industrial cellular RTU
	AltRTU600P-AP	GPS+4G industrial cellular RTU
	AltRTU600P-FP	GPS+4G FDD industrial cellular RTU
	AltRTU600P-QP	GPS+4G FDD/TDD industrial cellular RTU
	AltRTU600P-HP	GPS+4G Cat1 industrial cellular RTU