

Technical Specification for SeDTU200



VERSION NUMBER: **V.2.1**

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Product Overview

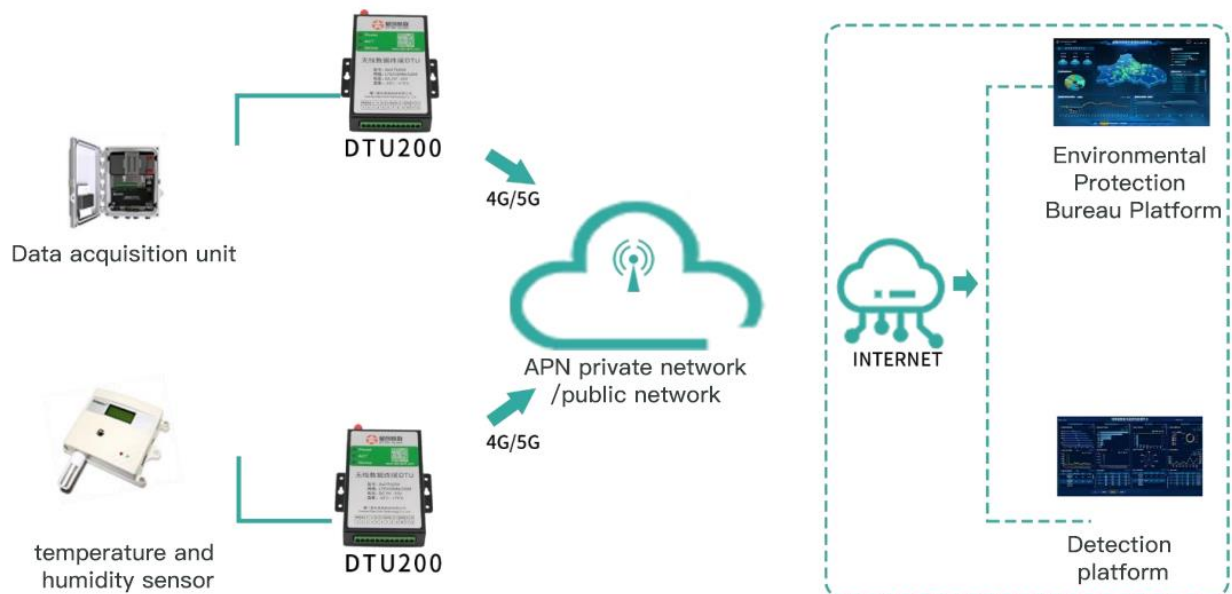
The SeDTU200 series 4G industrial DTU is an industrial-grade wireless data terminal product, utilizing LTE 4G wireless networks as the bearer network. It provides industrial users with a wireless data transmission channel above TCP/IP, facilitating wireless data communication between remote control station serial port devices and central control systems, enabling remote industrial site control. The DTU200 employs a high-performance industrial MCU main control chip and is equipped with an embedded real-time operating system, providing customers with a stable and reliable operating system. It offers RS232 and RS485 interfaces for direct connection to serial port devices, enabling transparent data transmission. It supports various configuration and management methods such as local PC-side configuration tools, AT command configuration, and TCP/IP remote configuration, simplifying on-site construction and post-maintenance, significantly improving construction efficiency, and reducing the overall cost of system operation, thereby allowing customers to truly experience the convenience of wireless communication.

Product Features

- Support LTE 4G CAT4/CAT1/NB
- Supports APN/VPDN
- Supports serial port software upgrades and remote maintenance
- Supports access to the center based on domain names and IP addresses
- Supports dual data center backup transmission and multiple data center synchronous transmission
- Embedded standard TCP/IP protocol stack, supporting transparent data transmission
- Supports local serial port configuration, upgrade, cloud platform remote management, upgrade, configuration

- Provides standard RS232 and RS485 (or RS422) interfaces for direct connection to serial port devices
- Supports MQTT, HJ212, Modbus, and other protocol conversions
- Supports active data polling and reporting functions
- Supports dual DTU functionality

Topology Diagram



Technical Parameters

Hardware Performance

CPU	Industrial-grade 16/32-bit communication processor
Network Support	Industrial-grade 4G module, supports seven-mode full network, supports NB module

Interfaces

Serial Ports	1*RS232 and 1*RS485 (or RS422) interface,with built-in 15KV ESD protection Serial port parameters as follows: Data bits: 5, 6, 7, 8 bits Stop bits: 1, 2 bits Parity: None, even, odd parity Serial port baud rate: 300~230400bits/s
Indicators	1 PWR light, 1 ACT light, 1 Oline light
SIM Card interface	1 (drawer-type SIM card slot, supports 1.8V/3V SIM/UIM cards, with built-in 15KV ESD protection)
Antenna Interface	1 (3G/4G antenna, impedance 50 ohms, SMA female antenna interface)
Power	Terminal power, with built-in power reverse protection and overvoltage protection

Power Characteristics

Power Supply	External power adapter (DC-9V 1A).
Operating Voltage	Wide power input DC 5~36V
Communication Current	<150mA·(12V)

Operating Conditions

Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Operating Humidity	5%~95% (non-condensing)
Device Ventilation	Natural heat dissipation, no noise

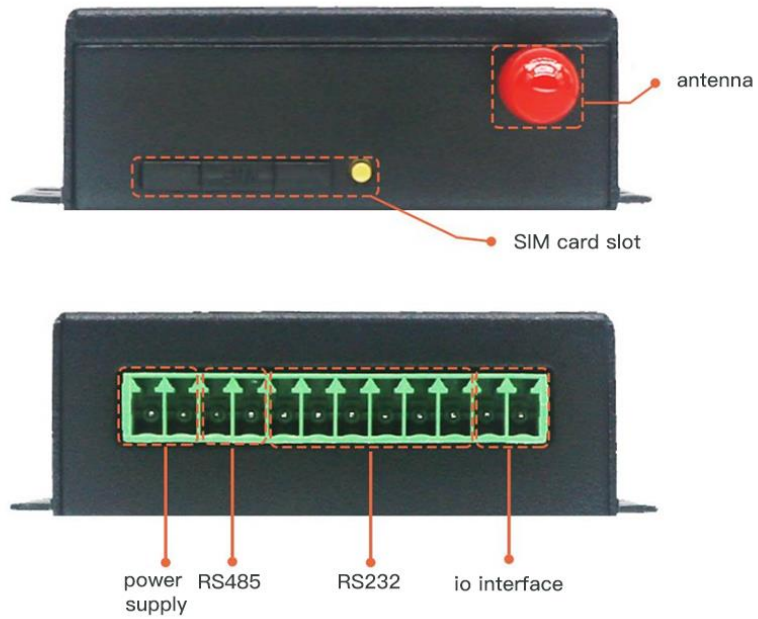
Physical Features

Chassis	Full metal chassis
Dimensions	Length*Width*Height: 91*58.5*22mm(excluding antenna mounting components)
Installation Methods	Desktop placement, DIN rail mounting, wall-mounted
Weight	Net weight: 0.205KG (excluding antenna and mounting components) Gross weight: 0.68KG (with accessories and packaging box)

Device Safety and Reliability

Safety and Reliability	Power reverse protection, overvoltage protection, overcurrent protection; Ethernet interface with built-in 1.5KV electromagnetic isolation protection; RS232/RS485 interface with built-in 15KV ESD protection; SIM/UIM card interface with built-in 15KV ESD protection
Protection Level	IP30
Certification	Complies with CE,FCC, CCC, RoHS
MTBF	≥ 100,000 hours

Product Interfaces



Product Dimensions

