

# Technical Specification for SeDTU200



VERSION:V3.1

XIAMEN KEY-IOT TECHNOLOGY CO., LTD

[www.key-iot.com](http://www.key-iot.com)

# Product Overview

The SeDTU200 series 4G industrial-grade DTU is an industrial wireless data terminal product that leverages LTE 4G wireless networks to provide a reliable wireless data transmission channel over TCP/IP for industrial users. It enables seamless wireless data communication between serial devices at remote control stations and central control systems, facilitating remote industrial field control.

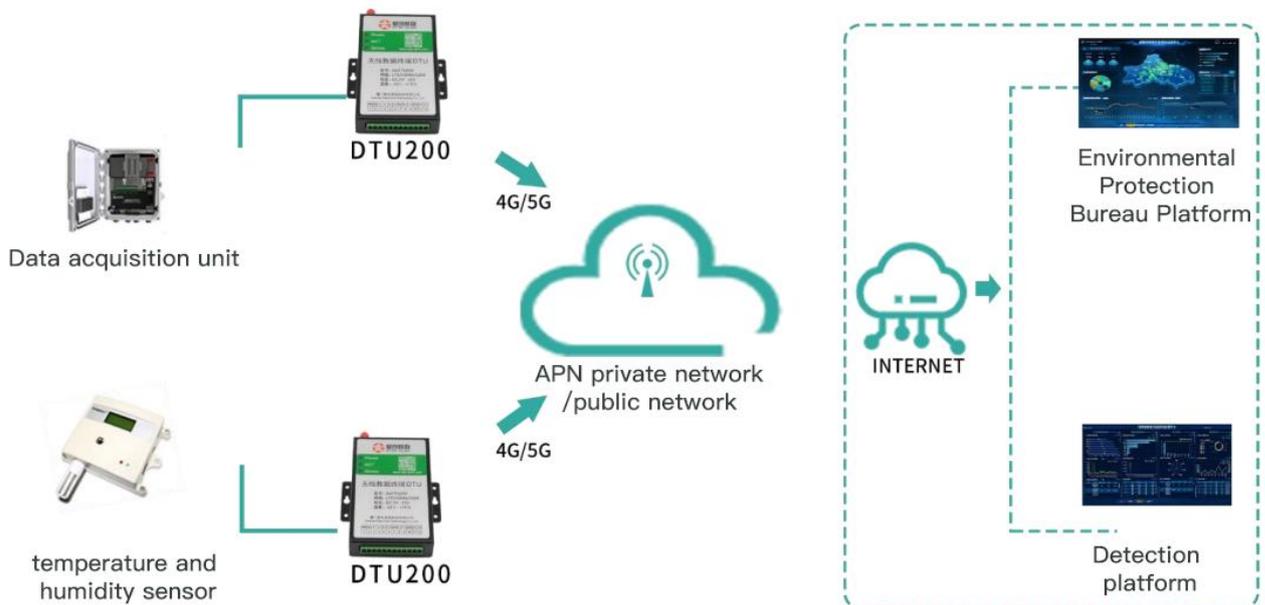
Equipped with a high-performance industrial-grade MCU main control chip and an embedded real-time operating system, the SeDTU200 ensures stable and reliable operation. It supports RS-232 and RS-485 interfaces for direct connection to serial devices, enabling transparent data transmission. The device offers multiple configuration and management methods, including local PC-based tools, AT command configuration, and TCP/IP remote configuration. This simplifies on-site installation and post-maintenance, significantly improves deployment efficiency, and reduces overall system operational costs, allowing users to fully experience the convenience of wireless communication.

## Product Features

- Supports LTE 4G CAT4/CAT1
- Supports APN/VPDN
- Supports HJ212-2017 protocol
- Supports Ntrip protocol
- Supports TCP、UDP、MQTT、HTTP、TLS (optional)
- Supports Modbus TCP/RTU protocol conversion , Supports converting Modbus data to JSON format for reporting
- Supports Dual data center backup transmission and multi-data center synchronization (up to 4 centers)
- Local serial port configuration/upgrade and cloud-based remote management

- Supports Standard RS-232 and RS-485 interfaces for direct device connection
- Supports Active data polling and reporting functionality
- Supports Dual DTU functionality
- Supports Two-channel I/O (configurable as DI/DO)
- Supports Software and hardware watchdogs to ensure system stability

## Topology



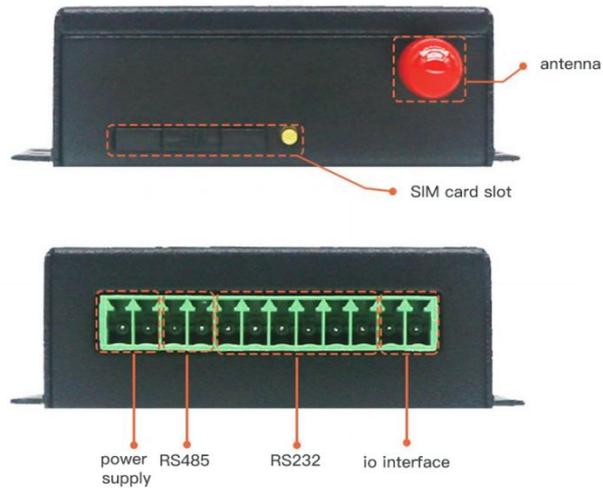
## Technical Parameter

### Hardware Performance

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

Interface	
Serial Port	1*RS232 and 1*RS485 interface, with built-in 15KV ESD protection Serial port parameters as follows: Data bits: 7, 8 bits Stop bits: 1、2 bits Parity: None, Even, Odd parity Serial port baud rate: 1200~115200bits/s
IO	Supports two configurable I/O channels (DI/DO) with a voltage range of 0–3.3V
Indicators	1 PWR light, 1 ACT light, 1 Online 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 Power	1 (3G/4G antenna, impedance 50 ohms, SMA female antenna interface) 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	< 100mA·(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	
Casing material	Metal housing
Dimensions	Length*Width*Height: 91*58.5*22mm(excluding antenna mounting components)
Installation Methods	Desktop placement, DIN rail mounting, wall-mounted
Weight	Net weight: 0.20KG (excluding antenna and mounting components) Gross weight: 0.42KG (with accessories and packaging box)
Device Safety and Reliability	
Safety and Reliability	Power reverse protection, overvoltage protection, overcurrent 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 CCC、Rohs
MTBF	≥100,000 hours

# Product Interfaces



# Product Dimension

单位:mm  
unit:mm

