Technical Specification for SeDTU300　(Multi-Serial Port)
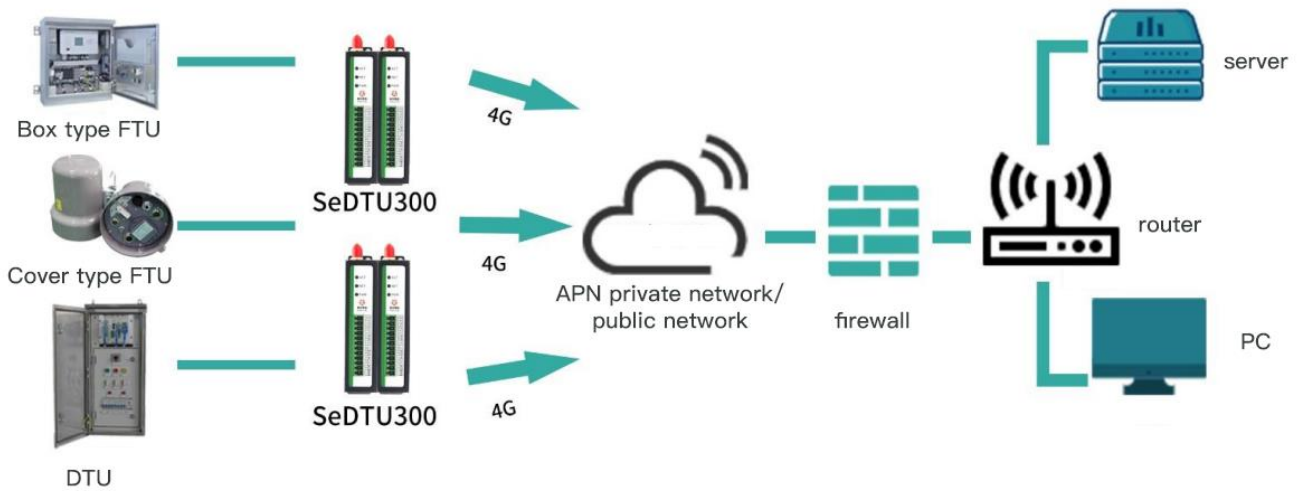
Product Overview

The SeDTU300 series 4G/NB industrial DTU is an industrial-grade wireless data terminal product, which utilizes LTE 4G/NB 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. It offers RS232 and RS485 interfaces as well as a rich set of IO interfaces for direct connection to serial port devices, enabling transparent data transmission and IO data acquisition functions. 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

- Supports LTE 4G CAT4

- Supports 1 RS232 port, 1 RS485 port

- Supports local data storage (optional)

- Supports GPS positioning function (optional)

- Supports multiple data protocol conversion

- Supports 2 IO ports, enabling digital output

- Supports flexible installation methods: DIN rail, wall-mounted

- Supports 2 analog input channels (optional) for current or voltage input acquisition

- Supports local serial port configuration, upgrade, cloud platform remote

management, upgrade, configuration

Topology Diagram

Technical Parameters

Hardware Performance	
FLASH	8MB SPI FLASH
SRAM	256KB
Network Support	ndustrial-grade 4G module, supports seven-mode full network, supports NB module
RTC	Time synchronization using NTP technology, with built-in RTC
Interface	
Serial Ports	1 x RS232 AND 1 RS485 INTERFACE, BUILT-IN 15KV ESD PROTECTION, 1 RS232 and 1 RS485 interface, with built-in 15KV ESD protection Serial port parameters as follows: Data bits: 5, 6, 7, 8 bits Stop bits: 1, 1.5, 2 bits Parity: None, even, odd, SPACE, and MARK parity Serial port baud rate: 1200~230400bits/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)

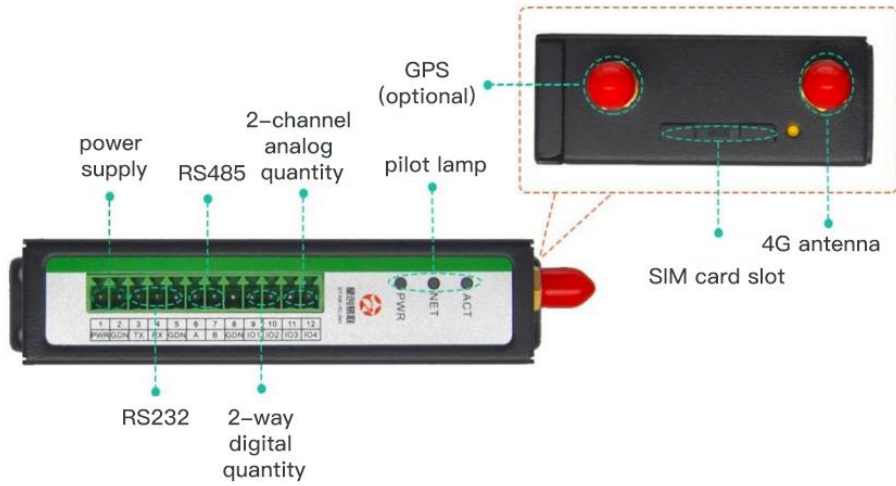|	
Antenna Interface	1 (3G/4G/NB antenna, 1 GPS antenna (optional), impedance 50 ohms, SMA female inner pin interface)
Power	Terminal interface, with built-in power reverse protection and overvoltage protection
Power Characteristics	
Power Supply	External power adapter (9V 1A)
Operating Voltage	Wide power input DC 5~36V (expandable to 5-60V)
Standby Power Consumption	
Operating power consumption	
Operating Conditions	
Operating Temperature	-35~+75℃ (-31~+167℉)
Storage Temperature	-40~+85℃ (-40~+185℉)
Operating Humidity	5%~95% (non-condensing)
Device Ventilation	Natural heat dissipation, no noise
Physical Features	
Chassis	Full metal chassis
Dimensions	Length*width*height 119*59*26mm (excluding antenna mounting components)
Installation Methods	Desktop placement, DIN rail mounting, wall-mounted
Weight	Net weight: 0.35KG (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 CCC, RoHS
MTBF	≥ 100,000 hours

Product Interfaces

Product Dimensions