



TD-DTU-SE

DataSheet



Access Capability



Multi-Network



Bluetooth BLE



Baud Rate



Network Protocol

TD-DTU-SE is a device designed for data acquisition and remote transmission. It features a built-in high-capacity battery, eliminating the need for external power supply, and addresses the challenge of data acquisition and transmission in scenarios where power supply is unavailable on-site. Equipped with a 4G Cat-1 wireless communication module, it supports 2G+4G networks and GNSS positioning. The built-in wireless communication module adopts a modular design based on the Mini-PCIE standard interface, offering a variety of modules with different frequency bands to adapt to wireless networks in various countries and regions worldwide, enabling remote data acquisition and transmission.



(1) Power adapter

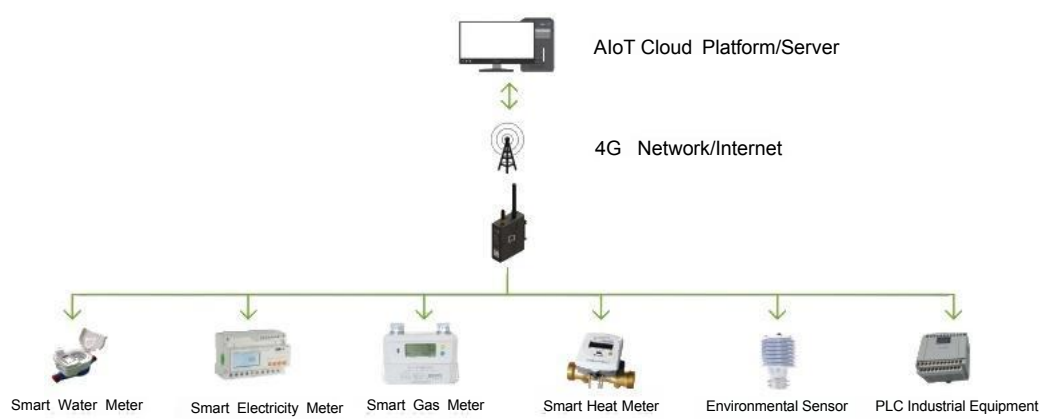


(2) Bluetooth antenna



(3) 4G antenna

Application topology diagram



Technical Specifications

Items	Features
Power Supply	9-36VDC
Indicator Lights	Power/Network/Communication/Bluetooth
Region/Channel	Global
Reference Dimensions	92mm*81mm*24mm
LTE-FDD	B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28
LTE-TDD	B38/39/40/41
WCDMA	B1/2/4/5/6/8/19
GSM/EDGE	B2/B3/5/8
GNSS	GPS,GLONASS,BDS,Galileo,QZSS(Optional)
LTE-FDD	Max 10 Mbps(Downlink)/5 Mbps(Uplink)
LTE-TDD	Max 8.96 Mbps(Downlink)/3.1 Mbps(Uplink)
WCDMA	Max 384 kbps(Downlink)/384 kbps(Uplink)
EDGE	Max 296 kbps(Downlink)/236.8 kbps(Uplink)
GPRS	Max 107 kbps(Downlink)/85.6 kbps(Uplink)
LTE-FDD	Class 3(23 dBm±2 dB)
LTE-TDD	Class 3(23 dBm±2 dB)
WCDMA	Class 3(24 dBm+1/-3 dB)
GSM850	Class 4(33 dBm±2 dB)
Number of Serial Ports	1×RS232,1×RS485(Can operate simultaneously)
Serial Port Pins	RS232-Terminal(V/TX/RX/GND),RS232-DB9(2-RX/3-TX/5-GND),RS485-Terminal(A/B/G)
Data Bits	7,8
Stop Bits	1,2

Parity Bits	NONE,ODD,EVEN
Baud Rate	300~115200bps
SIM Card Slot	External SIM Card Slot,Standard Mini SIM
Bluetooth Antenna	1 Bluetooth antenna, SMA male thread with inner hole
4G Antenna	1 4G antenna, SMA male thread with inner hole
Reload Button	Button Hole
Power Socket	DC socket
Network Protocols	TCP/UDP/MQTT
Working Modes	TCP Client,UDP Client,MQTT Client
SSL Encryption	Supported
MQTT Transmission	Supported
TCP Transmission	Supported
DUP Transmission	Supported
Operating Temperature	-35 ~ +75°C
Operating Humidity	5%~95%(Non-condensing)
Storage Temperature	-35 ~ +75°C
Storage Humidity	5%~95%(Non-condensing)
Reverse Polarity Protection	Supported
Overvoltage &Overcurrent Protection	Supported
Lightning Protection	Supported
Surge Protection	Supported



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