



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.

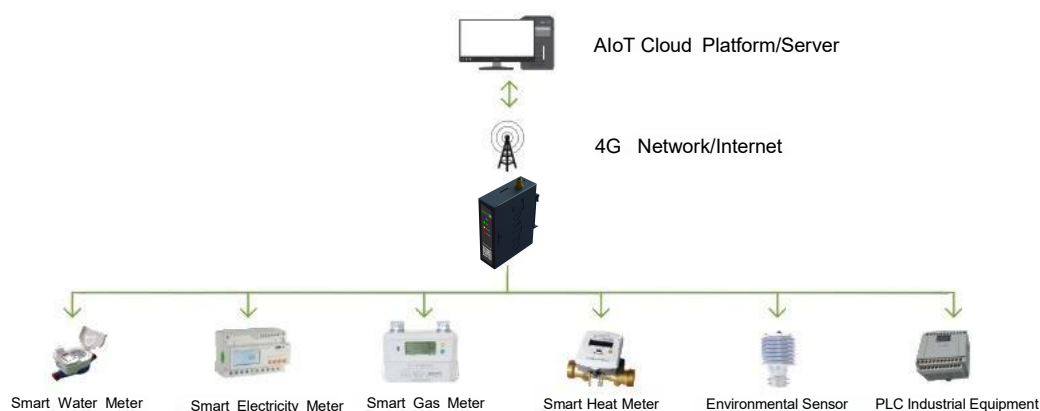


(1) Power adapter



(2) 4G antenna

Application topology diagram



Technical Specifications

Category	Items	Features
Basic Information	Power Supply	DC : 9-36VDC; Battery : 27000 Mah
	Indicator Lights	Power/Network/Communication/Bluetooth
	Region/Channel	Global
	Reference Dimensions	107mm*77mm*25mm
Frequency Band Information	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)
Data Information	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)
Output Power	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)
Serial Port Parameters	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
Interface & Others	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	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
Temperature & Humidity Range	Operating Temperature	-20 ~ +60°C
	Operating Humidity	5%~95%(Non-condensing)
	Storage Temperature	-20 ~ +60°C
	Storage Humidity	5%~95%(Non-condensing)
Reliability	Reverse Polarity Protection	Supported
	Overvoltage &Overcurrent Protection	Supported
	Lightning Protection	Supported
	Surge Protection	Supported