Data Terminal Unit (DTU)
TS-DTU-500A

TS-DTU-500-A industrial IP Modem series is designed to provide stable and reliable wireless communication and transparent transmission based on 4G/3G/2.5G network for unattended site. With the advantages of rapid networking, flexible expansion, short construction cycle and low cost, it has been widely used in remote data collection, remote device monitoring, remote control, remote alarm and other fields, such as power distribution automation, environmental protection, water conservancy, finance, heat pipe network, oil field and other unmanned applications.

Product features:

1. RS232, RS485, I/O, ADC(optional) interfaces

2. 4G/3G/2.5G network with courier approval

3. Industrial grade design, high and low temperature (-35-75 C), wide pressure (5-35V)

4. Multiple hardware and software technology guarantee wireless connection "permanent online"

5. Financial level data security, private network access

6. Support data multi center synchronous transmission

7. Strong signal search and reception ability

8. Compatible with city power supply, solar power supply, battery power supply

9. Durable self locking card slot

10. Dedicated device management tools, centralized monitoring, configuration, upgrading, diagnosis of a large number of DTU distributed worldwide

Product Specifications:

Item	Content	Standard	Description
Interface	Serial port	X 1	Serial form: 12 PIN terminal, 3.5mm interval
			RS-232/RS-485 Serial type: RS-232/RS-485
			1200~115200bps Baud rate: 1200~115200 bps
			Data format: 8 x data bits, 1 x stop bits, none/odd/even parity, no flow control
	Analog interface (optional)	X 2	Interface type: input
			Data format: 10 x AD
			Power input: 4-20mA　current signal
			Voltage input: 0-5V voltage signal (optional)
	I/O port (optional)	X 3	Application mode: input or output I/O
			Communication voltage: 3.3V
	SIM/UIM	X 1	Drawer type, Standard 1.8V/3V SIM/UIM, 15KV ESD protection
	Antenna interface	X 1	Standard SMA female interface, 50 ohm
	LED Indicator	X 4	System, Power, ACT, Online
Power supply	Standard Power	DC 12V/0.5A	Reverse-voltage and overvoltage protection
	Power Range	DC 5V -- 35V	
	Current communication	<85mA (12V)	
Power Consumption	Communication	<1W	<85mA@12VDC; <155mA@5VDC
	Standby	<0.4W	<30mA@12VDC; <55mA@5VDC
	Sleep	<0.1W	<8mA@12VDC; <18mA@5VDC
Security	Link detection	PPP layer heartbeat, ICMP detection, TCP keepalive and application layer heartbeat and other multi-level link detection mechanism to maintain wireless links, and support broken line automatic reconnection	
	Watchdog	Equipment operation self-inspection technology, equipment operation fault self-recovery	
Network management	Auto dialing	Auto dialing when powered	
	Demand dialing	Long/short connection, local data activation, SMS activation, call activation, scheduled activation offline	
	Configuration	M2M equipment cloud platform, remote, local serial port, SMS	
	Upgrade	Local or remote upgrade	
	Log	local or remote log output	
	Management	M2M equipment cloud platform	
	Configure backup	configure file import and export	
IP grade	IP30	Iron housing	
Environmenta	Operating temperature	-35 - +75°C	

l Limits	Storage temperature	-40 - +80ºC	
	Operating Humidity	95% (unfreezing)	
Physical Characteristics	Installation	Ear hanging	
	Dimension	91x58.5x22 mm	Excluding antenna and mounting
	Weight	208g	