RS232/485/422 to 4G DTU Wireless data transmission terminal manual

Please read the product manual carefully before using the product

Ⅰ.Product introduction

This product is a functional M2M 4G product, suitable for mobile, unicom, telecom 4G and mobile, unicom 3G and 2G network standard. With "pass-through" as the core function, highly easy to use, users can easily and quickly integrate in their own system. The product has complete functions and covers most of the common application scenarios. Users can realize the two-way data transparent transmission from serial port to network through simple Settings. And support custom registration package, heartbeat package and other functions, support 2 Socket connection and protocol communication such as httpd. It has the character -istics of high speed and low delay.

Ⅱ.Product introduction

1. 5 mode 13 frequency: 4G high-speed access for China mobile, China unicom and China telecom, and support 3G and 2G access for China unicom and China mobile.
2. Support 2 network connections online at the same time, support TCP and UDP.
3. Supports 20 serial port data caches of each connection, you can choose to cache data without loss when the connection is abnormal.
4. Support registration package/heartbeat package function
5. Support a variety of working modes: network transmission mode, HTTPD mode, UDP mode.
6. Support Socket distribution protocol, can send data to different sockets.
7. Support the two-way data transparent transmission of RS232/RS485/ RS422 towireless 4G,3G and 2G networks.
8. Communication rate: 300bps~460800bps
9. Power input voltage range: DC 9~35V, Working current: 60mA/12V
10. Use environment: temperature is -20°C to 85°C, Relative humidity is 5% to 95%

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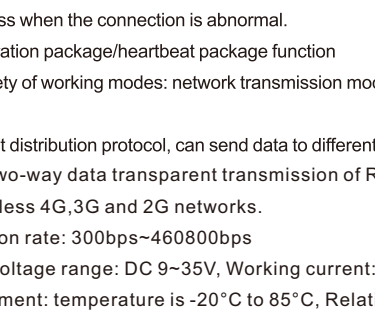
	Mode	Band	Tx Power(dBm)	Mode
Transmit power	GSM	GSM 900	32.5±1	
		DCS 1800	29.5±1	
	LTE FDD	Band 1	23±1	10MHz Bandwidth, 1 RB
		Band 3	23±1	10MHz Bandwidth, 1 RB
		Band 5	23±1	10MHz Bandwidth, 1 RB
		Band 8	23±1	10MHz Bandwidth, 1 RB
	LTE TDD	Band 34	23±1	10MHz Bandwidth, 1 RB
		Band 39	23±1	10MHz Bandwidth, 1 RB
		Band 40	23±1	10MHz Bandwidth, 1 RB
		Band 41	23±1	10MHz Bandwidth, 1 RB
	Mode	**Band**	**Rx Sensitivity(dBm) Typical**	**Mode**
Received power	GSM	GSM 900	-109.5	BER<2.43%
		DCS 1800	-108.0	BER<2.43%
	LTE FDD	Band 1	-98.0	10MHz Bandwidth, 1 RB
		Band 3	-98.0	10MHz Bandwidth, 1 RB
		Band 5	-98.5	10MHz Bandwidth, 1 RB
		Band 8	-98.5	10MHz Bandwidth, 1 RB
	LTE TDD	Band 34	-98.0	10MHz Bandwidth, 1 RB
		Band 39	-98.0	10MHz Bandwidth, 1 RB
		Band 40	-99.0	10MHz Bandwidth, 1 RB
		Band 41	-99.0	10MHz Bandwidth, 1 RB
Specifications	Working frequency bands	LTE FDD: Band 1,3,5,7,8		
		LTE TDD: Band 34,39,40,41(2555MHz-2655MHz)		
		GSM/GPRS: 900/1800MHz		
	Data transmission	LTE FDD Rel.13	10Mbps DL/5Mbps UL	
		LTE TDD Rel.13	8.2Mbps DL/3.4Mbps UL	
		GPRS	GPRS:85.6kbps DL/85.6kbps UL (multi-slot class12)	

Ⅲ.Interface Description

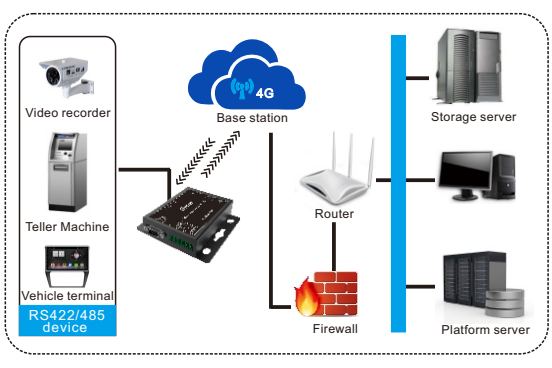


No	Name	Introduction
❶	DC 9-35V	Power input interface
❷	Reset	Reset key
❸	USB	USB interface
❹	ANT	Antenna interface
❺	SIM	SIM interface
❻	RS232	RS232 signal interface
❼	RS485 A	RS485 A Communication Interface
❽	RS485 B	RS485 B Communication Interface
❾	RS422 A	RS422 A Communication Interface
❿	RS422 B	RS422 A Communication Interface
⓫	GND	Ground
⓬	DC 9-35V	Power supply positive input interface

Ⅳ.Connection diagram

RS422 connection mode:

Product side		Device side
RS485 A		TX+
RS485 B		TX-
RS422 A		RX+
RS422 B		RX-



Ⅴ.Product accessories

（1）product *1PCS.
（2）12V-1A Power supply*1PCS.
（3）SMA male male pin sucker antenna*1PCS.
（4）Manual * 1PCS.
（5）3.81*6P Terminals * 1PCS.

Product Warranty Card

Customer Information

Model：	
Date of purchasel：	
User telephone：	
User address：	
Distributor：	
Agency address：	
User telephone：	Dealer stamp valid

Intenance Records

Repair times	Date	Fault	Treatment measures	Repair work NO.