



JZC TELECOM
Technology

Shenzhen JZC TELECOM Technology CO.,LTD.

JZ901 GPRS MODULE

User' s Manual



DVER 2.0

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This product relies on China Mobile's GPRS network platform for wireless data communication, To overcome traditional wireless communication short distance, unstable performance, to provide high-speed, online, transparent data transmission for users. Achieve uncoveage, no distance limitations, roaming national. Widely used in power automation, industrial control, traffic management, weather, finance, environmental monitoring, coal, oil, securities and other industries. Using GPRS network platform to achieve transparent transmission of data, to meet the various applications of our networking, has flexibility, communication center needs to be fixed IP.

JZX 901 Feature

- independent research and development, with a real-time operating system for embedded 32-bit ARMv7-MCU.
- Working frequency:850/900/1800/1900MHz. quad-band applicable to all countries of the world (including North and South America)
- Embedded PPP , TCP, UDP, ICMP protocol stack, transparent data transmission, data terminals always online.
- inner watchdog, the relay power management, no crash, no dropped and automatically restored, more variety of operating modes can choose, flexible, convenient.
- anti-jamming design, even the hardware deadlock, ordinary watchdog can not service processor and communication module, It's still can automatic return to the normal state functions.
- Interface: standard industry TTL
- Equipment operating instructions-Fi and Network connection.
- Providing user setup software, open interfaces.
- Industrial aluminum alloy sell, anti-interferenceh, durable, easy to install, industrial temperature range
- Temperature: -40 ° C -80 ° C
- More baud rate can be set.
- Support the GSM dial wake-up and always-on mode of operation.

1.3 Electromagnetic Interference

Most of the electronic equipment taken the electromagnetic protection measures, but old-fashioned device also may not take appropriate protective measures, the radiation of RF energy may malfunction, checking electromagnetic protection in short range well make well when use JZX90.

1.4 Technical parameters

1.4.1 GSM / GPRS:

Fruency: 850/900/1800/1900MHz quad-band applicable to global (including North and South America)

GPRS Multi-slot Class 12

GPRS Mobile Station Class B

GPRS code: CS1 to CS4

Output power: Class 4 (2W) at GSM850MHz and GSM900MHz

Class 1 (1W) at DCS1800MHz and PCS1900MHz

Sensitivity: 108 dBm (typ.) at EGSM900 MHz 106 dBm (typ.) at DCS1800MHz

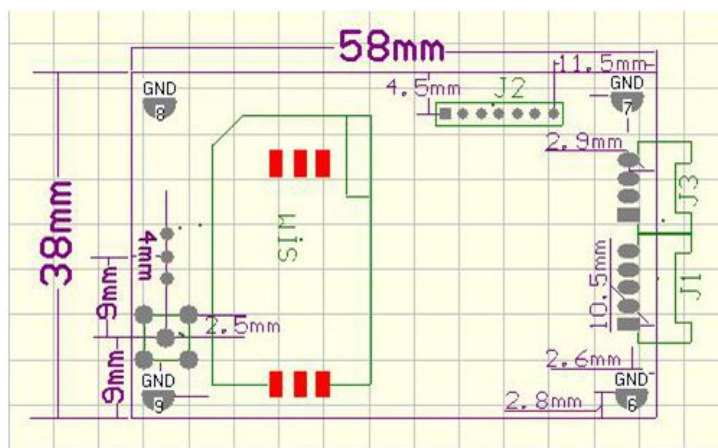
Compatible with standard AT commands (GSM07.05 and 07.07)

Support the extended instruction

Support SMS, USSD, CSD

Embedded TCP / IP protocol

1.4.2 Application Interface and volume (see below)



This product provides three hardware interface:

- TTL interface
- An UART(Tx Rx GUN)
- A DC: 5 to 24V power connector.

Volume: 58mm(L)*38mm(W)*12mm(H)

Weight: 20g (Not including antenna, data cable)

1.4.3 Electrical parameters

Operating voltage DC 5V ~ 12V

Power consumption:

- Standby: <50mA @ 5V
- Communication: <200mA @ 5V

Emission peak: 1.5A @ 5V

1.4.4 Environmental parameters

Operating temperature -40 ° C to 80 ° C

Storage temperature -45 ° C to 125 ° C

Relative Humidity: 20% ~ 95% (non-condensing)

1.4.5 light signals

POWER ----- bright for DUT on power

GPRS ----- always bright for registered GPRS network

DATA ----- lights flash indicates DTU working in normal, fast flash mean have data communication



1.4.6 Interface Definition

Project	Pin	Function	Description	Connection
1	Empty Pin			
2	TXD-TTL	Serial data sender	RXD	
3	RXD-TTL	Serial data receiver	TXD	
4	GND	Power supply/ Terminal	DGND/AGND	
5	VCC	+5V	+5V	

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