

F2910

Series NB-IoT Terminal



F2910 series NB-IoT Terminal is a kind of Internet of things device that provides data transfer by public NB-IoT network.

It adopts high-powered industrial 32 bits CPU and embedded real time operating system. It supports RS232 and RS485 port that can conveniently and transparently connect one device to a NB-IoT network, allowing you to connect to your existing serial devices with only basic configuration. It has low power consumption states. It has compatible 5 digital I/O channels, ADC, input pulse counter and pulse wave output function.

It has been widely used on M2M fields, such as wireless meter reading, smart city, smart grid, intelligent transportation, fire protection, asset tracking, mobile terminal POS, logistics, industrial automation, digital medical, military, agriculture, forestry, water, coal, petrochemical and other fields of data transmission.

HIGHLIGHT

INDUSTRIAL-GRADE DESIGN

- ◆ High-powered industrial cellular NB-IoT module
- ◆ High-powered industrial 32 bits CPU
- ◆ Low power consumption design, save the power consumption maximum
- ◆ Embedded Real Time Clock(RTC) circuit
- ◆ Housing: iron, providing IP30 protection
- ◆ Power range: DC 5~36V

POWERFUL FUNCTIONS

- ◆ Supply 5 I/O channels, compatible 5 pulse wave output channels, 5 analog inputs and one pulse input counters
- ◆ Support multi data centers and it can support 5 data centers at the same time
- ◆ Support dynamic domain name(DDNS) and IP access to data center
- ◆ Design with standard UDP/COAP protocol stack, The support of transparent data transmission

STABLE & RELIABLE

- ◆ Support hardware and software WDT
- ◆ Support auto recovery mechanism, including online detect, auto redial when offline to make it always online
- ◆ RS232/RS485 ports: 15KV ESD protection
- ◆ SIM/UIM port: 15KV ESD protection
- ◆ Power port: reverse-voltage and overvoltage protection
- ◆ Antenna port: lightning protection(optional)

STANDARD INTERFACE &

EASY-TO-USE

- ◆ Adopt terminal block interface, convenient for industrial application
- ◆ Support standard RS232/RS485 ports that can connect to serial devices directly
- ◆ TTL logic level RS232 interface can be customized
- ◆ Support intellectual mode, enter into communication state automatically when powered
- ◆ Provide management software for remote management (optional)
- ◆ Support several work modes
- ◆ Convenient configuration and maintenance

TYPICAL APPLICATION



SPECIFICATIONS

Characteristics

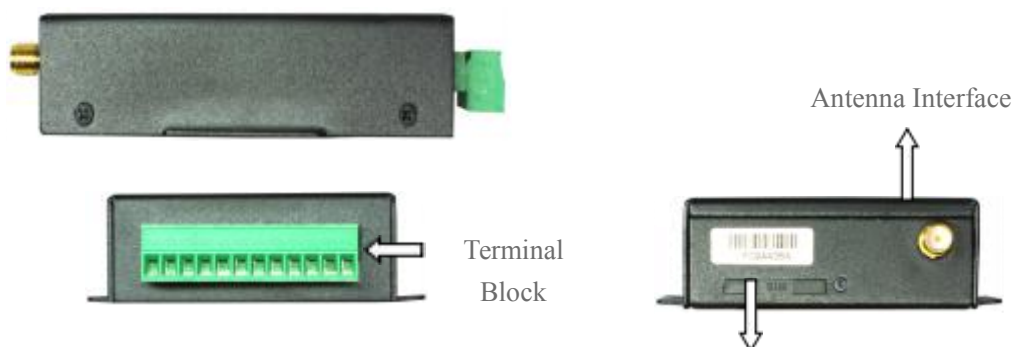
Band	B5:850MHz
	B8:900MHz
	B20:800MHz
Bandwidth	100bps~100Kbps
TX power	23±1dBm
RX sensitivity	<-129dBm

Hardware System

CPU	Industrial 32 bits CPU
FLASH	512KB (Extendable)
SRAM	256KB(Extendable)

Interface Type

Serial	1 RS232 port and 1 RS485(orRS422) port, 15KV ESD protection
	Data bits: 5, 6, 7, 8
	Stop bits: 1, 1.5, 2
	Parity: none, even, odd, space, mark
	Baud rate: 110~230400 bps
Indicator	“Power”, “ACT”, "Online”
Antenna	Standard SMA female interface, 50 ohm, lightning protection(optional)
SIM/UIM	Standard user card interface, support 1.8V/3V SIM/UIM card, 15KV ESD protection
Power	Terminal block interface, reverse-voltage and overvoltage protection



Note: There may be different components and interfaces in different model, please in kind prevail.

Power Supply

Standard Power	DC 12V/0.5A
Power range	DC 5~36V

Power Consumption

Working condition	Consumption
Deep Sleep	35-40uA@12VDC
Common Sleep	1-2mA @12VDC
Standby	5~7mA@12VDC

Communication	15~20mA@12VDC
Physical Characteristics	
Weight	210g
Housing	Iron, providing IP30 protection
Dimensions	91x58.5x22 mm
Environment limits	
Operating temperature	-35~+75°C(-31~+167°F)
Storage temperature	-40 ~ +85°C (-40~+185°F)
Operating Humidity	95% (unfreezing)

PICTURES



CONTACT



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Model	Description
F2910-B5	850MHz, band5, Facing China and South Korea; Support the China Telecom
F2910-B8	900MHz, band8, Facing China Europe and South Korea; Support the China Mobile and Unicom
F2910-B20	800MHz, band20, Facing Europe