

F2910



F2910 NB-IoT terminal is a kind of IOT device that provides data transfer by public NB-IoT network. It adopts high-performance 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 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-performance industrial cellular NB-IoT module
- High-performance industrial 32 bits CPU
- Low power consumption
- Embedded RTC circuit
- IP30 metal casting
- Certifications: CE

POWERFUL FUNCTIONS

- Supply 5 I/O channels, compatible 5 pulse wave output channels, 5 analog inputs and 5 pulse input counters customize.
- 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
- Standard TCP/UDP/MQTT/COAP protocol stack, and support transparent data transmission.



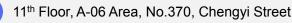


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STABLE & RELIABLE

- Support hardware and software WDT
- Support auto recovery mechanism, including online detect, auto redial when offline to make it always online
- RS232/RS485 interface with built-in 15KV ESD protection
- SIM/UIM interface with built-in 15KV ESD protection
- Power interface with built-in phase-reversal and over-voltage protection
- Antenna interface with lightning protection(optional)

STANDARD

INTERFACE

EASY-TO-USE

- Adopt terminal block interface, convenient for industrial application
- Support standard RS232/RS485 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)
- Multiple operating modes selection.

Comment confirmation and

SPECIFICATIONS

NB-loT			
Bands	B3\ B5\ B8\ B20\ B28		
Date Rate	100bps~100Kbps		
Output Power	23±1dBm		
Sensitivity	<-129dBm		
HARDWARE			
CPU	Industrial 32 bits CPU		
FLASH	512KB (Extendable)		
SRAM	256KB (Extendable)		
INTERFACE			
Serial	1*RS232 and 1*RS485 (or RS422) interface with built-in 15KV ESD protection		
	Data bits: 8 bits		
	Stop bits: 1 or 2 bits		
	Parity bits: none, even or odd		
Indicator	"Power", "ACT", "Online"		
Antenna	1*Standard SMA female interface, 50 ohm, lighting protection(optional)		
USIM	1*Standard sim card interface, support 1.8V/3V USIM card, 15KV ESD protection		
Power	1*Terminal block interface, reverse-voltage and over-voltage protection		
POWER SUPPLY			
Standard	12V/0.5A		
Range	DC: 5~36V		

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DOWED CONCUMPTION		
POWER CONSUMPTION		
Standby	5~7mA@12V	
Communication	15~20mA@12V	
Sleep	1-2mA @12V	
Deep Sleep	35-40uA@12V	
PHYSICAL PROPERTIES		
Casing	Metal, IP30	
Dimensions	91x58.5x22mm	
Weight	210g	
OTHERS		
Operating Temperature	-35~+75°C (-31~+167°F)	
Storage Temperature	-40~+85°C (-40~+185 °F)	
Relative Humidity	95% (non-condensing)	
Certifications	CE	
F2910 F2910 F37500 F07 F885 Farst State Farst State) OneNET Azure	Antenna Interface
Note: There may be diff	erences between models of acc	Terminal Block

Model	Description
F2910-B3	1800MHz, band3, Europe, Asia Pacific, Latin America and Sub-Saharan Africa
F2910-B5	850MHz, band5, China and South Korea
F2910-B8	900MHz, band8, China Europe and South Korea
F2910-B20	800MHz, band20, Europe
F2910-B28	700MHz, band28, Asia Pacific and Latin America







