

# F2910

## NB-IoT Terminal

TCP / UDP / MQTT /

V3.0.0



**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.

## SPECIFICATIONS

### NB-IoT

<b>Bands</b>	B3\ B5\ B8\ B20\ B28
<b>Date Rate</b>	100bps~100Kbps
<b>Output Power</b>	23±1dBm
<b>Sensitivity</b>	<-129dBm

### HARDWARE

<b>CPU</b>	Industrial 32 bits CPU
<b>FLASH</b>	512KB (Extendable)
<b>SRAM</b>	256KB (Extendable)

### INTERFACE

<b>Serial</b>	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
<b>Indicator</b>	"Power", "ACT", "Online"
<b>Antenna</b>	1*Standard SMA female interface, 50 ohm, lightning protection(optional)
<b>USIM</b>	1*Standard sim card interface, support 1.8V/3V USIM card, 15KV ESD protection
<b>Power</b>	1*Terminal block interface, reverse-voltage and over-voltage protection

### POWER SUPPLY

<b>Standard</b>	12V/0.5A
<b>Range</b>	DC: 5~36V

## POWER CONSUMPTION

<b>Standby</b>	5~7mA@12V
<b>Communication</b>	15~20mA@12V
<b>Sleep</b>	1-2mA @12V
<b>Deep Sleep</b>	35-40uA@12V

## PHYSICAL PROPERTIES

<b>Casing</b>	Metal, IP30
<b>Dimensions</b>	91x58.5x22mm
<b>Weight</b>	210g

## OTHERS

<b>Operating Temperature</b>	-35~+75°C (-31~+167°F)
<b>Storage Temperature</b>	-40~+85°C (-40~+185 °F)
<b>Relative Humidity</b>	95% (non-condensing)
<b>Certifications</b>	CE



Antenna Interface



Terminal Block

**Note:** There may be differences between models of accessories and interfaces, actual products shall prevail.

## ORDERING

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



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