Four-Faith 四信®

F2910

NB-IoT Terminal

TCP / UDP / MQTT / COAP



Singtel Jio AIS

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.
- Convenient configuration and maintenance interface

SPECIFICATIONS

NB-IoT	
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

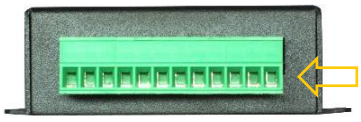
POWER CONSUMPTION	
Standby	5~7mA@12V
Communication	15~20mA@12V
Sleep	1-2mA @12V
Deep Sleep	35-40uA@12V
PHYSICAL PROPERTIES	
Casing	Metal, IP30
Dimensions	91x58.5x22mm
Weight	210g
OTHERS	
Operating Temperature	-35~+75ºC (-31~+167ºF)
Storage Temperature	-40~+85ºC (-40~+185 ºF)
Relative Humidity	95% (non-condensing)
Certifications	CE



OneNET

Azure





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

ORDERING

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