

# **Data Terminal Unit**

## F2816 4G-LTE Data Terminal Unit

- Fully Compatible with 4G-LTE/3G/2.5G Network
- Ultra-Low Power Consumption
- Integration Terminal Data Transparent Transmission
- Save the Data Flow, Support Multiple Trigger Ways
- SMS Backup
- Remote Configuration, Upgrade and Maintenance, Greatly Improve Management Efficiency
- Providing Much More Safe Deployment Plans, Data Transmission Reaching Financial Level.





#### **Ultra-Low Power Consumption**

Using multi-level sleep and wake-up mode. The power consumption at mode of working, standby, and sleep [sleep consumption <5mA are lower than similar products in the industry, show evident advantage in the situation when inconvenient to get powered.



## Fully Compatible with 4G/3G/2.5G Network

All models fully compatible with all 4G/3G/2.5G communication network, make more options for client's project construction. The speed of transmission increase 5 times than former terminal, which enable the big data faster.



#### Save the Data Flow

Support multiple trigger ways, including SMS, ring, and serial port data trigger online or offline mode, can reduce the power consumption effectively and avoid the waste of data flow consumption.



## SMS Backup

When online wireless network signal or center network fail to work, it can automatic switch into GSM and to send or receive data (data and SMS are back-up for each other, switch freely).



## **Specification**

## **F2816 IP Modem Cellular Specification**

Item Content

Cellular Module Industrial cellular module

UMTS/WCDMA/HSDPA/HSUPA 850/1900/2100MHz, 850/900/1900/2100MHz(optional)

Standard and Band GSM850/900/1800/1900MHz

WCDMA/HSDPA/HSUPA/EDGE CLASS 12

Bandwidth HSDPA:7.2Mbps(DL),HSUPA:5.76Mbps(UL)
UMTS:384Kbps (DL), 384Kbps (UL)

TX power <24dBm

RX sensitivity <-109dBm

#### **Hardware System**

Item Content

CPU Industrial 32 bits CPU FLASH 512KB (Extendable)

SRAM 256KB

## **Interface Type**

Item Content

2 RS232 port and 1 RS485(orRS422) port, 15KV ESD protection

Data bits: 5, 6, 7, 8

Serial 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, lighting protection(optional)

SIM/UIM Standard 3V/1.8V user card interface, 15KV ESD protection

Power Terminal block interface, reverse-voltage and overvoltage protection

#### **Power Input**

ItemContentStandard PowerDC 12V/0.5APower RangeDC 5~36V

## **Power Consumption**

Working States Power Consumption

 Communication
 95~165mA@12VDC
 205~365mA@5VDC

 Standby
 40~50mA@12VDC
 80~100mA@5VDC

 Sleep
 5mA@12VDC
 6mA@5VDC

## **Physical Characteristics**

Item Content

Housing Iron, providing IP30 protection

Dimensions 91x58.5x22 mm

Weight 205g

## **Environmental Limits**

Item Content

Operating Temperature  $-35 \sim +75^{\circ}\text{C} (-22 \sim +167^{\circ}\text{F})$ Storage Temperature  $-40 \sim +85^{\circ}\text{C} (-40 \sim +185^{\circ}\text{F})$ Operating Humidity 95% (unfreezing)

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