

Four-Faith 四信

IP Modem

F2816 V4

RS232 RS485 3G 4G

Introduction

F2816 V4 IP MODEM is an IoT wireless data terminal, using public cellular network to provide users with wireless long-distance data transmission. Low power consumption design, provide 2 ADC, 3 I/O, can realize the functions of digital input and output, pulse output, analog input, pulse counting and, etc. This product has been widely used in the M2M industry in the IoT industry chain.

Industrial-grade Design

- High-performance industrial-grade wireless module
- High-performance industrial-grade 32-bit communication processor
- Low power design
- Metal shell, IP30 protection level
- Wide voltage input (DC 5~36V)

Stability & Reliability

- Watch dog design
- Anti-drop mechanism
- RS232/RS485 with 15KV ESD protection
- SIM/UIM with 15KV ESD protection
- Built-in reverse phase protection and over voltage protection for power interface
- Antenna interface lightning protection (Optional)

Standard & Convenience

- Industrial terminal interface
- 1 x RS232 and 1 x RS485
- Supports customize TTL, ADC
- Plug and play
- Central Management Software (Optional)
- Multiple work mode
- Easy configurations
- Support serial upgrade

IP Modem F2816 V4



High Performance

- Supports TCP server
- Dual data center backup transmission
- Supports APN
- Support multi-data center synchronous transmission
- Provide 3 x DI/DO + 2 x ADC (DI/DO can be customized to pulse counting)
- Support access to the center based on domain name and IP address
- Embedded standard TCP/IP protocol stack, support transparent data transmission

Product Specification

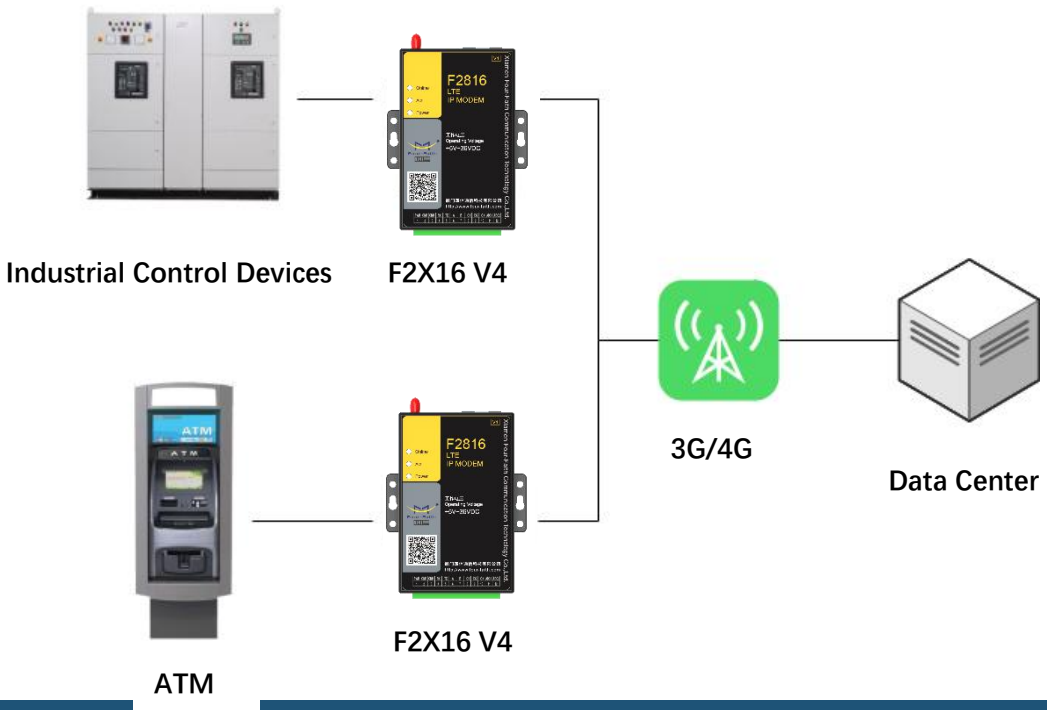
Cellular Specification	
IP MODEM	**F2816 V4**
Items	**Contents**
Frequency	LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	LTE FDD：150Mbps(DL), 50Mbps(UL) LTE TDD：130Mbps(DL), 35Mbps(UL) DC-HSPA+：42Mbps(DL), 5.76Mbps(UL) TD-HSPA+：4.2Mbps(DL), 2.2Mbps(UL) EVDO Rev. A：3.1Mbps(DL), 1.8Mbps(UL)
Transmit Power	<23dBm
Sensitivity	<-98dBm
Hardware System	
Items	**Contents**
CPU	Industrial-grade 32-bit communication processor
FLASH	512KB (Can customize to 8MB)
SRAM	256KB
Interfaces	
Items	**Contents**
Serial	1 x RS232 + 1 x RS485，with 15KV ESD protection Data bit：5, 6, 7, 8 Stop bit：1, 1.5, 2 Check ：None, Even, Odd Baud rate：1200~230400 bits/s
Indicator	Power, Online, System
Antenna	SMA interface，Resistance= 50Ω
SIM/UIM	Standard sim card slot with 1.8V/3V SIM/UIM, with 15KV ESD protection
Power	Terminal

IP Modem F2816 V4



Power Supply	
Model	F2816 V4
Items	Contents
Standard	DC 12V/0.5A
Range	DC 5~36V
Consumption	
Status	Contents
Communication	20~65mA @12VDC (2G:20~40 mA 4G:20~65mA) 20~95mA @9VDC (2G:30~45 mA 4G:20~95mA)
Standby	15~30 mA @12VDC 20~40 mA @9VDC
Sleep	5~17mA @12VDC 6~22mA @9VDC
Physical Properties	
Items	Contents
Shell	Metal shell, IP30
Size	91x58.5x22 mm (Antenna not included)
Weight	205g
Other	
Items	Contents
Working Temperature	-35~+75ºC
Storage Temperature	-40~+85ºC
Humidity	95% (Non condensation)

Topology



IP Modem F2816 V4



Order Information

Models	Description
F2816 V4	LTE IP MODEM