

EX-CPE-AIMJ02

IECEX Zone 1 5G CPE



II 2G Ex db mb [ia Ga]
IIB+H2 T4 Gb



Ex db mb [ia Ga]
IIB+H2 T4 Gb

INSIDE
Four-Faith F-NR100



Features

- IECEx and ATEX Zone 1 certified.
- Ex-d Explosion proof enclosure.
- Operates on 3G / 4G / 5G networks.
- High-performance industrial-grade 32-bit communication processor and industrial-grade wireless module.
- Provides 1 RS232 (or RS485 / RS422), 4 Ethernet LANs, and Ethernet WAN and Wi-Fi interfaces.
- With a rigid aluminum base, IP66(Water / Dust resistant).
- Power input AC(85-264V) .
- Built-in surge protection.
- External antennas.
- Easier installation, inspection and maintenance.
- Ambient temperature: -20 °C up to +60 °C

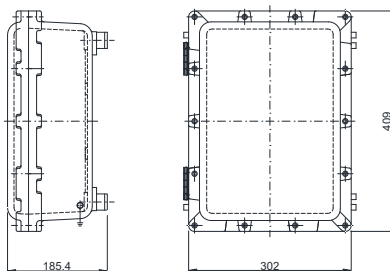
Antenna Coupler

- Explosion-proof antenna coupler allows the installation of non-Ex certified antenna in hazardous areas.
- Provides an intrinsically safe output and features a barrier circuit which blocks power voltage in the event of a radio transmitter / receiver fault.
- Enables a wide variety of passive antennas to be installed in hazardous areas. Antennas may be removed and/or installed with power on.



Dimensions

Unit: mm



Specifications

Model:	EX-CPE-AIMJ02
F-NR100 Industrial Router Product Overview	
F-NR100 is a wireless communication router for the Internet of Things. It uses public 3G / 4G / 5G networks to provide users with wireless long-distance large data transmission functions. This product uses a high-performance industrial-grade 32-bit communication processor and industrial-grade wireless module. It uses an embedded real-time operating system as the software support platform. It also provides 1 RS232 (or RS485 / RS422), 4 Ethernet LANs, and Ethernet WAN and 2 (4) Wi-Fi interfaces, which can be connected to serial devices, Ethernet devices and Wi-Fi devices at the same time, to achieve transparent data transmission and routing. This product has been widely used in the M2M industry in the IoT industry chain, such as smart grid, smart transportation, smart home, finance, mobile POS terminal, supply chain automation, industrial automation, smart building, fire protection, public safety, environmental protection, weather, Digital medical, remote sensing survey, military, space exploration, agriculture, forestry, water affairs, coal mining, petrochemical and other fields.	
Industrial-grade application design	
<ul style="list-style-type: none"> ● Using high-performance industrial-grade wireless module. ● Using high-performance industrial-grade 32-bit communication processor. ● Support low power consumption modes, including sleep mode, timing online and offline mode. 	
Stable and reliable	
<ul style="list-style-type: none"> ● WDT watchdog design to ensure system stability. ● Adopt a complete anti-drop mechanism to ensure that the data terminal is always online. ● Ethernet interface with built-in 1.5KV electromagnetic isolation protection. ● SIM / UIM card interface with built-in 15KV ESD protection. ● Power interface with built-in reverse protection and overvoltage protection. ● Lightning protection of antenna interface. 	
Functions	
<ul style="list-style-type: none"> ● Support VPN client (PPTP, L2TP, IPSEC)(Note: Only supported by VPN version). ● Support VPN sever (PPTP, L2TP, IPSEC)(Note: Only supported by VPN version). ● Support remote management, SYSLOG,SNMP, TELNET, SSHD, HTTPS and other functions. ● Support local and remote online upgrade, import and export configuration files. ● Support NTP, built-in RTC. ● Support a variety of DDNS at home and abroad. ● Wi-Fi supports 802.11b / g / n / ac, supports Wi-Fi AP, AP Client, repeater, relay bridge and other working modes (optional). ● Support a variety of online and offline trigger modes, including SMS, phone ringing, serial data, network data trigger online and offline modes. ● Support APN / VPDN. ● Support multi-channel DHCP server and DHCP client, DHCP bundled MAC address, DDNS, firewall, NAT, DMZ host, QoS, traffic statistics, real-time display data transmission rate and other functions. ● Support TCP / IP, UDP, FTP (optional), HTTP and other network protocols. ● Support SPI firewall, VPN traversal, access control, URL filtering, and other functions. ● Timed online and offline functions. 	
Technical specifications	
Wireless	
F-NR100 Router	
Standard Band	5G NR: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79 LTE-B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/B46/B48/B71
Bandwidth	5G NR: DL 3.4Gbps, UL 350Mbps LTE Cat20: DL 2.0Gbps, UL 150Mbps HSPA+: DL 42Mbps, UL 5.76 Mbps
Power	<23dBm
Sensitive	<-97dBm
Positioning	
Type	GPS/GLONASS/BeiDou/Galileo
Update interval	5 Hz
Location	2.5m CPE SBAS: 2.0m CPE
Sensitive	Follow: -160dBm Re-capture: -160dBm Cold start: -146dBm
Wi-Fi	
Standard Band	IEEE802.11b/g/n,2.4G,AP mode,Station mode(optional) IEEE802.11ac,5.8G,AP mode, Station mode(optional)
Bandwidth	IEEE802.11b/g: Bandwidth 54Mbps IEEE802.11n: Bandwidth 150Mbps IEEE802.11ac: Bandwidth 390Mbps
Security	WEP, WPA, WPA2 encryption
Power	26dBm (11b), 21.5dBm (11g), 20dBm (11n), 16dBm (11ac)
Sensitive	<-72dBm@54Mbps
Interface	
WAN	1 x 10/100/1000M Ethernet port (RJ45), auto MDI/MDIX, embedded 1.5KV ESD
LAN	4 x 10/100/1000M Ethernet port (RJ45), auto MDI/MDIX, embedded 1.5KV ESD
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Antenna	Cellular: 6 x SMA, 50ohm Wi-Fi: 2 (4) x SMA, 50ohm GPS: 1 x SMA, 50 ohm
Certification	
Marking	II 2(1) G Ex db mb [ia Ga] IIB+H2 T6 Gb II 2(1) D Ex mb tb [ia Da] IIIC T85°C Db IP66
ATEX nr.:	Presafe 20 ATEX 20038X
IECEX nr.:	IECEX PRE 20.0120X
Others	
Power Input	AC:85 ~ 264VAC
Maximum Power Consumption	16W
Size	409X302X185.4mm
Weight	21KG