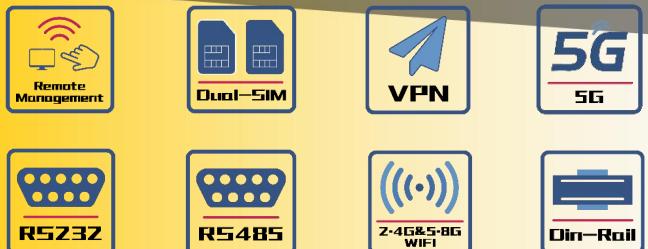


5G Industrial Router

F-NR130

5G



Introduction

F-NR130 is a wireless router for the Internet of Things, which uses public 3G/4G/5G networks to provide users with wireless long-distance big data transmission functions. Provide 1xRS232, 1xRS485, 1xLAN and 1xWAN/LAN port to achieve transparent data transmission and routing function. The product has been widely used in the M2M industry in the IoT industry chain, such as smart grid, smart transportation, smart home, supply chain automation, industrial automation, and other fields.



Industrial-grade Design

- ▶ High-performance industrial-grade wireless module
- ▶ High-performance industrial-grade 32-bit communication processor
- ▶ Using metal shell, protection grade IP30.
- ▶ Wide power input range 9~36V



Stability & Reliability

- ▶ WDT Watchdog design
- ▶ Anti-dropping mechanism to ensure that the data terminal is always online
- ▶ Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- ▶ RS232/RS485 interface, power and data isolation with CSA, UL and IEC standards
- ▶ SIM/UIM card interface built-in 15KV ESD protection
- ▶ Built-in reverse phase protection and over voltage protection for power interface



Standard & Convenience

- ▶ Standard RS232, RS485, and Ethernet port
- ▶ Provide standard wired WAN port (Support standard PPPOE protocol)
- ▶ Plug and Play
- ▶ Multiple working mode options
- ▶ Configuration and maintenance interface
- ▶ Support DIN rail and wall-mounting installation
- ▶ Support local and remote WEB mode or CLI mode

5G Industrial Router F-NR130



High Performance

- ▶ Multiple WAN connection methods, include Static IP/DHCP/PPPOE/DHCP-4G/5G
- ▶ Support 3G/4G/5G and wired WAN dual link backup
- ▶ Support VPN Client: PPTP/L2TP/IPSEC
- ▶ Support VPN Server: PPTP/L2TP/IPSEC
- ▶ Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- ▶ Support local upgrade and remote upgrade
- ▶ Import and export configuration files
- ▶ Support NTP / Build-in RTC
- ▶ Support DDNS
- ▶ Support VLAN, MAC address clone and PPPoE server
- ▶ WIFI Support 802.11b/g/n/ac. Support AP/AP Client/Bridge mode
- ▶ WIFI Support WEP, WPA, WPA2 and other encryption methods
- ▶ Support Private APN SIM card
- ▶ Support APN/VPDN
- ▶ Support DHCP server and DHCP client, NAT, DMZ, QOS
- ▶ Support TCP/IP, UDP, FTP (Optional), HTTP and other network protocols
- ▶ Support SPI firewall, VPN pass through, ACL, URL filter

Product Specification

Cellular Specification	
Items	Contents
Module	Industrial grade wireless module
Frequency	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 Remarks: Different modules support different network standards
Bandwidth	5G NR: DL 3.4 Gbps, UL 350 Mbps LTE Cat20: DL 2.0 Gbps, UL 150 Mbps HSPA+: DL 42 Mbps, UL 5.76 Mbps
Power	< 23dBm
Sensitivity	<-97dBm

5G Industrial Router F-NR130



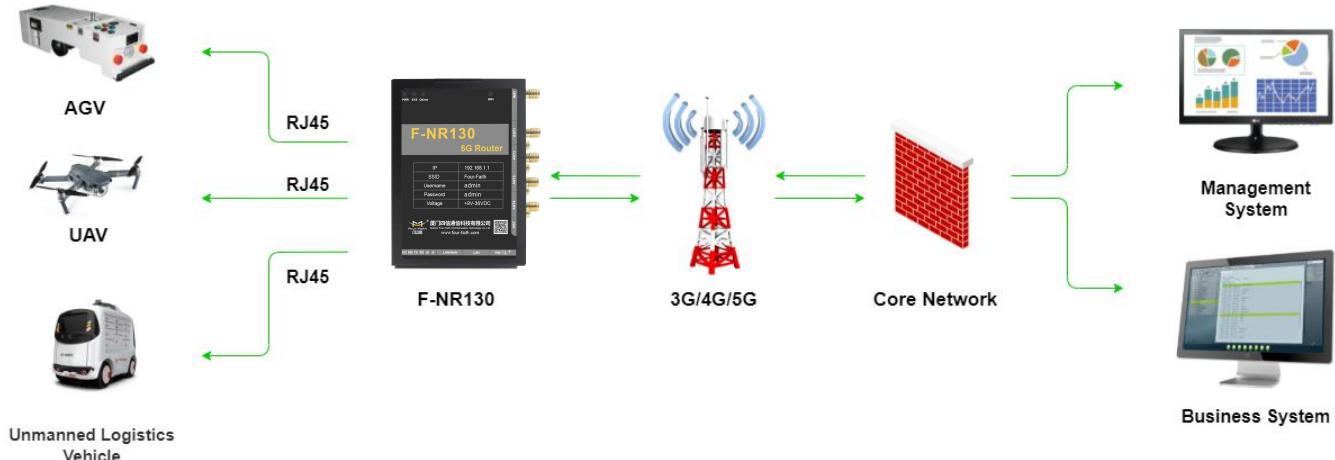
WIFI Specification	
Items	Contents
Frequency	IEEE802.11b/g/n, 2.4G, Support AP mode IEEE802.11ac, 5.8G, Support AP mode
Bandwidth	IEEE802.11b/g: 54Mbps IEEE802.11n: 300Mbps IEEE802.11ac: 866Mbps
Security	WEP, WPA, WPA2, WPS (Optional)
Power	26dBm (11b), 21dBm (11ac/MCS7/HT40), 20dBm (11ac/MCS9/HT80)
Sensitive	< -72dBm @ 54Mbps
Hardware System	
Items	Contents
CPU	Industrial-grade 32-bit communication processor
FLASH	32MB
DDR3	512MB
Interfaces	
Items	Contents
WAN	1 x 10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection Remarks: Can be used as LAN port
LAN	1*10/100/1000M Ethernet (RJ45), Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection 1 x RS232/RS485, Built-in 1.5KV electromagnetic isolation protection Data bit: 5, 6, 7, 8 Stop bit: 1, 1.5 (Optional), 2 Check: NONE, EVEN, ODD, SPACE (Optional), Mark (Optional) Baud rate: 2400~115200bits/s
Serial	"WIFI", "Online", "PWR", "SYS"
Indicators	"WIFI", "Online", "PWR", "SYS"
Indicators	"WIFI", "Online", "PWR", "SYS"
Antenna	Cellular: 4 standard SMA female antenna interfaces, characteristic impedance 50 ohms WIFI: 1 standard SMA male antenna interfaces, characteristic impedance 50 ohms
SIM/UIM	Standard drawer type user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection Support Micro-SIM*2 card and eSIM
Power	Terminal power socket
Reset button	Through this button, the parameter configuration can be restored to the factory

5G Industrial Router F-NR130



Power Supply	
Items	Contents
Standard	DC 12V/1.5A
Range	DC 9 ~36V
Consumption	<1.2A (12V)
Physical Properties	
Items	Contents
Shell	Metal shell, protection grade IP30
Size	106 x 76 x 23.5 mm (Does not include antenna and mounting parts)
Weight	285g
Others	
Items	Contents
Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (No condensation)

Topology



5G Industrial Router F-NR130



Dimension (mm)



Order Information

Models	Description
F-NR130	Cellular (5G NR), Micro-SIM*2, 2.4G/5G WIFI