

# Industrial 4G LTE Router

## IAD202F



### Industrial-grade Design

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Metal casing, IP30 protection level
- Wide range power input (DC 5~36V)



### Stability & Reliability

- EMC Level 3 and above, with strong anti-interference capability
- Dual SIM card design with complete dropout prevention mechanisms, ensuring the data terminal is always online
- Ethernet interface with 1.5KV electromagnetic isolation protection
- RS232/RS485 interfaces with 1.5KV ESD protection
- SIM card interface with 15KV ESD protection



### Standard & Convenience

- Provides standard RS232 and RS485 ports for direct connection to serial devices
- 2 x 100M Ethernet ports for direct connection to Ethernet devices
- Supports standard network protocols, ensuring strong compatibility
- Supports remote management, simplifying operations
- Supports rail and wall-mounted installation for flexible deployment

## Introduction

IAD202F is an industrial-grade router featuring a high-performance processor and wireless module, running on an embedded real-time operating system. It offers versatile connectivity with 1 x RS232, 1 x RS485, 1 x Ethernet LAN, 1 x Ethernet WAN, DI/DO, and Wi-Fi. This router enables seamless data transmission between serial, Ethernet, and Wi-Fi devices. It supports dual SIM cards with intelligent switching for backup, making it perfect for industrial IoT and M2M applications, ensuring reliable and continuous connectivity.





- Supports multiple VPN protocols including IPsec, OpenVPN, and WireGuard
- Built-in MQTT gateway, supporting data transparent transmission to HTTP/ MQTT/ Azure cloud
- Supports remote management platform and PC client applications
- Supports SPI firewall
- Wi-Fi supports multiple encryption methods including WEP, WPA, WPA2, etc.
- Supports multiple network protocols including TCP, UDP, IPv4, DNSS, Telnet
- Supports mounting remote file systems via SSH protocol
- Equipped with DDoS protection (SYN flood protection, SSH attack protection, Telnet attack protection)
- Flexible access control for SSH, Web interface, CLI, and Telnet
- Supports MODBUS TCP and Modbus RTU status/control
- Supports MQTT subscription and MQTT publishing
- Supports bridging and transparent transmission functions

## Cellular Specification

	4G LTE CAT4
	LTE FDD: B1/3/5/7/8/20/28
Standard and Band	LTE TDD: B38/40/41
	WCDMA: B1/5/8
	GSM/GPRS/EDGE: 850/900/1800MHz
	LTE FDD: 150Mbps DL,50Mbps UL
Bandwidth	LTE TDD: 130Mbps DL,30.5Mbps UL
	WCDMA: 384Kbps DL,384Kbps UL

## Wi-Fi Specification

Standard and Band	IEEE 802.11 a/b/g/n, 2.4G
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum) IEEE802.11n: 144Mbps (Maximum)
Security	Support WEP, WPA, WPA2 and other encrypt methods
Transmit Power	15±2dBm
Sensitivity	<-72dBm 54Mbps

## Hardware System

CPU	Industrial-grade CPU
Flash	32MB
DDR3	128MB

## Security and VPN

	IPsec
	OpenVPN
	WireGuard
	GRE
VPN	DMVPN
	PPTP
	L2TP
	ZeroTier
Firewall	Stateful packet inspection
	SYN flood prevention
DDoS Protection	SSH attack protection
	Telnet attack protection
Access Control	SSH, Web Interface, CLI, and Telnet

## IoT Protocol Support

MQTT	Publish and subscribe for seamless integration with IoT platforms
Modbus TCP/RTU	Bridge serial devices to modern SCADA systems
HTTP	Push telemetry directly to APIs or cloud dashboards





## Interfaces

WAN	1 x 10/100M RJ45 ethernet port adaptive MDI/MXIX, built-in 15KV ESD
LAN	1 x 10/100M RJ45 ethernet port adaptive MDI/MXIX, built-in 15KV ESD (Support Passive PoE)
Serial	1 x RS232, 1 x RS485 Serial interface with built-in 15KV ESD
I/O	1 x DI, 1 x DO
LED	"PWR", "Online", "LAN", "WAN", "WIFI", "SYS"
Cellular Antenna	2 x Standard SMA female characteristic impedance: 50Ω
Wi-Fi Antenna	1 x Standard SMA male characteristic impedance: 50Ω
SIM/UIM Slot	2 x Standard 2FF SIM card slot
Power	Standard 4 pin terminal block with built-in phase-reversal and over- voltage protection
Reset Button	Can reset router's configuration to default factory setting by this button

## Power Consumption

Standard	DC12V/1.5A
Voltage Range	DC 9 ~ 36V
Operating Current	<1.2A (12V)

## Physical Properties

Casing	Aluminum metal casing IP30 protection level
Dimensions	91.4mm x 92.4mm x 31mm (Excluding antennas and mountings)
Weight	200g
Operating Temperature	-40~+75°C
Storage Temperature	-40~+85°C
Relative Humidity	95% (non-condensing)

