

IAD200

Industrial 4G LTE Router



Industrial-grade Design

Stability & Reliability

Security & Protection

Multiple Interfaces

Flexible Wireless

Easy & Convenience

- The IP30 fanless metal casing design supports harsh operating temperatures from -40°C to 70°C , and provides a backup mechanism for dual DC power inputs.
- The dual-SIM design supports mobile transmission backup and ensures the stability and reliability of the network through the failover management mechanism of multiple Internet interfaces. The communication between the remote device and the monitoring center is uninterrupted, maximizing uptime.
- Supports TACACS+ to provide independent authentication, authorization, and accounting services, and supports IPSec, WireGuard to establish secure network connection communications to protect your data access.
- Can be connected to Ethernet, RS485, RS232, DI, and Relay interfaces, and uses the common communication protocol Modbus TCP to communicate with peripheral devices in various field applications.
- Supports IEEE 802.11a/b/g/n/ac, can configure Wi-Fi as a WAN or access point, and provides Wi-Fi security WPA2-PSK (AES).
- Provides mass configuration, device management, and firmware upgrades through TFTP/HTTP to quickly maintain and manage remote application devices.

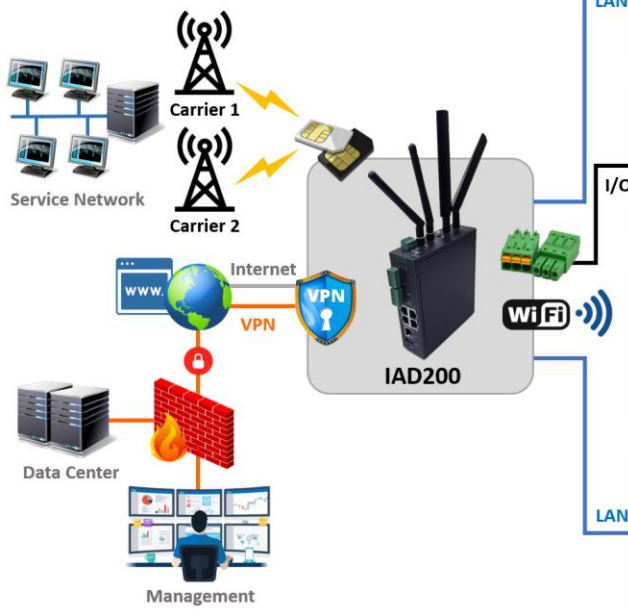
Introduction

IAD200 is a highly-reliable and secure gateway combines 802.11ac and 4G LTE technologies to provide flexible wireless network connectivity. It supports with five Gigabit Ethernet ports (4 x LAN, 1 x WAN) and RS232/ RS485 interface for Modbus application. DIN-Rail mounting, wide operating temperature range from -40°C to 70°C , and IP30 housing, the IAD200 is a convenient yet reliable solution for any industrial wireless application.

IAD200 allows users to implement encrypted VPN tunnels and other basic Wi-Fi routing capabilities. With IEEE 802.11ac dual band radio it can operate either 5GHz or 2.4GHz bands. IAD200 adapts MIMO technology with smart antenna transmission and reception for 2T2R. It also supports AP/ Client modes to diverse for most of wireless application.

The LTE CAT4 up to 150Mbps for downlink and 50Mbps for uplink data transfer. It also supports multi-band connectivity including LTE-FDD/ LTE-TDD/ HSPA+/ UMTS/ EDGE/ GPRS/ GSM for a wide range of applications and machine to machine communication.





Model

IAD200-45M	4G LTE/ Wi-Fi 5/ Modbus
IAD200-40M	4G LTE/ Modbus

Physical Interface

LAN port	4 x 10/100/1000BASE-T RJ45, auto-negotiation, auto MDI/ MDI-X
WAN port	1 x 10/100/1000BASE-T RJ45, auto-negotiation, auto MDI/ MDI-X
Serial port	1 x RS232 1 x RS485
I/O port	2 x DI (isolated) 1 x Relay
Reset Button	for restoration to factory default

WLAN Interface

Standard	IEEE 802.11a/b/g/n/ac
Operating Frequency	2.4GHz: 2400 ~ 2483.5 MHz 5GHz: 5150 ~ 5725 MHz
Mode	AP, Client mode
Encryption	WPA2-PSK (AES)
Antenna Connectors	2 x PR-SMA/ 50ohm

Cellular Interface

Frequency (SA)	LTE CAT4 (Uplink up to 50Mbps, Downlink up to 150Mbps) LTE-FDD: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B28/ B66 WCDMA: B1/ B2/ B5/ B8 GSM/ GPRS/ EDGE: 850/ 900/ 1800/ 1900MHz GNSS support (Optional)
SIM slot	2 x nano SIM
Antenna connectors	2 x SMA/ Cellular interface/ 50ohm 1 x SMA/ GNSS interface/ 50ohm

Network Functions

Protocol	IPv4, DDNS, STP
Packet Statistics	RMON counter
WAN connection	DHCP Client, Static IP, PPPoE, IP Passthrough
Auto Provision	CWMP/ TR-069
Dynamic routing	RIPv1/v2
	Modbus TCP Server
Industrial & IoT	Transparent (RTU over TCP) MQTT
Diagnostic Tool	Ethernet Statistics, Ping, TcpDump





Management Functions

Switch management interface	Console/ Telnet CLI Web management SSHv2 secure access
Firmware upgrade	TFTP/ HTTP
RTC	SNTP and embedded RTC
Access Log	System Access Log display and output file
Configuration	Syslog, SMS, and SNMP Trap alarm reporting of different alarm severity Support SNMP v1/ v2c/ v3 CWMP/ TR-069 Provision for configuration, device management, and OTA update User Profiles, configuration can backup and restore backup and restore
Monitoring	RMON counter
Mobile Usage	Mobile data usage statistics chart
Auto Reboot	Scheduling auto reboot function
Factory Default	Reset button for restoration to factory default

Security Features

VPN	IPSec WireGuard
NAT	Virtual Servers/ Port Forward Demilitarized zone (DMZ) NAT Pass-through
Firewall	MAC, IP, URL for Black & White list filter Discard WAN Access/ Ping
Secure network connection	Discard Ping HTTPS/ TLS/ 1.2/ 1.3 TACACS+ for AAA
Access levels	Administrator, Operator and Monitor
Anti-camouflage attack	Lock IP and delay login
Interface enable/disable	Changeable port number Telnet, SSH, HTTP and HTTPS

Power

Input	3.5mm 4-pin Terminal block with external DC dual input
Range	DC 9 ~ 48V
Consumption	Less than 10W

Environmental Limits

Operation	-40°C ~ 70°C (-40 to 158°F)
Storage	-40°C ~ 85°C (-40 to 185°F)
Relative humidity	5 ~ 95% (non-condensing)

Regulatory

NCC	CCAF254G023AT1, CCAF254G0230T2
EMC	CNS 15936 (equivalent to CISPR 32)
Safety	CNS 15598-1

Mechanical

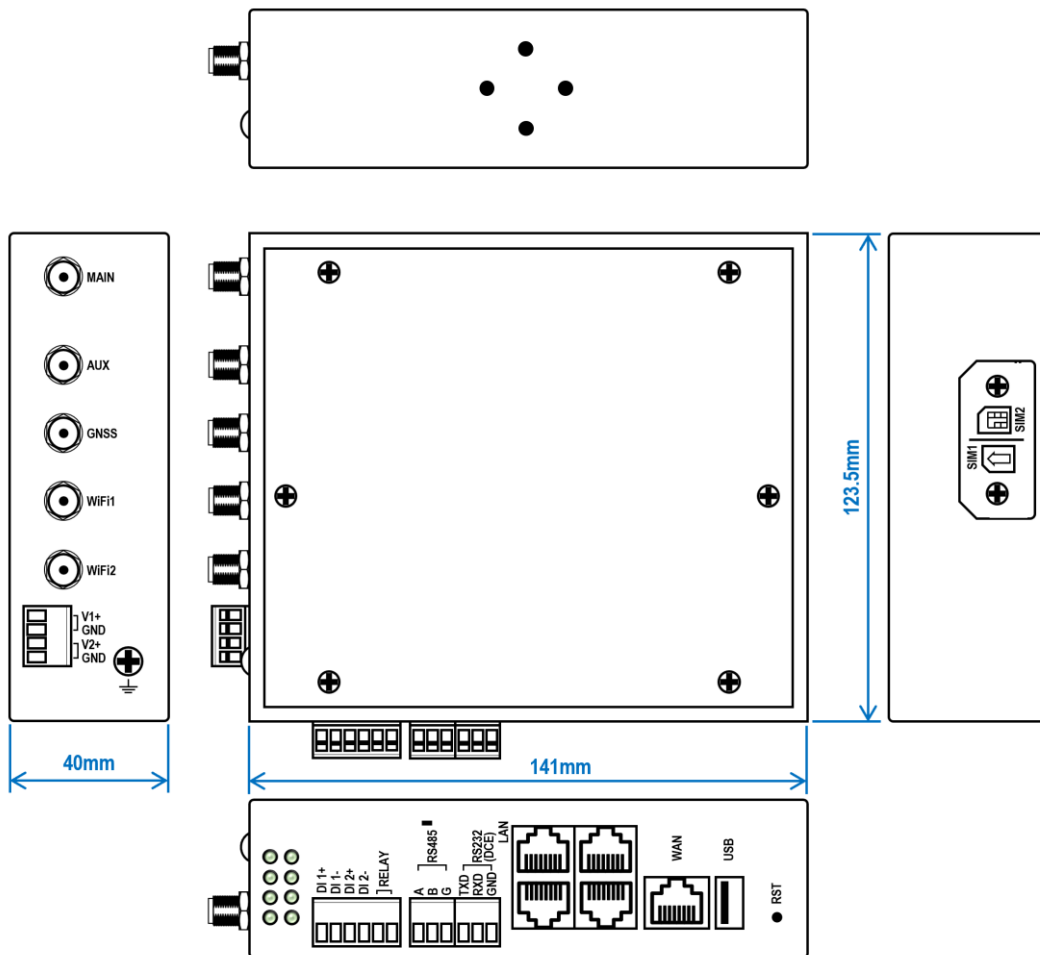
	PWR, SYS Cellular Signal Strength Cellular Network Connection
LED indicator	Wi-Fi SIM1, SIM2 WAN - SPD/ LNK LAN1~4 - SPD/ LNK
Dimensions	W 40mm x D 123.5mm x H 141mm
Weight	560g
Casing	IP30 iron case DIN-Rail design





Optional Accessories

GNSS Antenna	GNSS antenna with SMA Plug
AC Power	AC-DC 12V/ 1.5A Rated Power 18W Operation -30°C ~ 70°C



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