CJ-2GF8GT-DIDO

8×Copper+2×SFP 1G Ethernet Ports 4G Cellular Dual Band WiFi Edge Router



- 8×1G RJ45 ports, 2×SFP fiber ports, 1×RS232 and 1×RS485, 1×DI/1×DO
- Global 4G LTE cellular network with dual SIM redundancy
- Support GPS positioning
- Qualcomm dual-band Wi-Fi 6, AP / STA / Repeater/ Bridge working modes
- Support multiple VPN protocols: IPSec, OpenVPN, L2TP, PPTP, WireGuard
- Support IPv6 and advanced routing
- Industrial-grade design with IP40 aluminum alloy enclosure, DC 9~60V power input
- -40°C to +75°C wide operating temperature range

Product Description

CJ-2GF8GT-DIDO is a new-generation industrial IoT router and gateway designed to provide reliable and secure connectivity for industrial networking applications. It integrates 4G LTE cellular communication, Qualcomm dual-band Wi-Fi 6, Gigabit Ethernet, GNSS positioning, and multiple VPN technologies to deliver stable Internet access and high-speed data transmission for distributed industrial devices.

This COME-STAR router provides rich hardware interfaces, including 2×SFP fiber ports and 8×Gigabit RJ45 ports, 1×RS232, 1×RS485, and 1×DI/1×DO, enabling easy connection of PLCs, sensors, meters, and other industrial equipment. Through protocols such as TCP, UDP, Modbus, MQTT, and HTTP, this industrial gateway can connect to cloud platforms or remote monitoring systems. Dual SIM redundancy, network failover, and GNSS positioning support ensure continuous connectivity and remote asset tracking.

Built on a high-performance Qualcomm platform with 1GB memory and 8GB storage, the router supports Python secondary development and edge computing applications. Designed for industrial environments, it features an IP40 aluminum enclosure, wide operating temperature range of -40°C to +75°C, and wide voltage input of DC 9–60V. With hardware and software watchdog mechanisms and strong EMC protection, it ensures stable operation in harsh industrial environments.

Product Features

- Aluminum alloy shell, IP40-rated protection.
- Industrial wide temperature: -40°C~+75°C design
- EMC National standard 3B hardware high protection level, specially designed for harsh industrial environment
- Built-in hardware and software watchdog, self-detection and self-repair of faults to ensure system stability
- Standard DIN-rail installation method
- 10×Gigabit Ethernet ports (2×SFP + 8×RJ45)
- Support 4G Global Band
- Support TF and USB peripheral access
- Network redundancy design with dual SIM card slots
- Support network failover with dual SIM, dual WAN and Wi-Fi backup for continuous connectivity
- 1×RS232+1×RS485 serial ports
- 1×DI+1×DO interfaces
- Support Qualcomm dual-band Wi-Fi6 (AP/STA/Repeater/Bridge)
- 1GB RAM and 8GB storage, supporting Python secondary development
- Support PPTP, L2TP, IPSec, OpenVPN, GRE, VXLAN, DMVPN, and WireGuard VPN protocols
- Support for cellular band locking and frequency point locking (PCI)
- Support serial data transmission via TCP, UDP, Modbus, MQTT, and HTTP protocols
- Support edge collection computing and report through MQTT+JSON format
- Support cloud services such as Alibaba Cloud
- Support SNMP/SMS/alarm/monitor/DDNS and other network services
- Support key service information of OLED display, and support two open custom OLED display content
- Support GPS positioning, and supports displaying location information on the cloud and reporting to private servers
- Support static routing, policy routing, and dynamic routing protocols
- Support IPV6
- Support ICMP keep-alive detection, heartbeat packet detection and other functions to ensure stable operation of the equipment

- Support security firewall, DNAT, SNAT, DMZ, port forwarding, access restriction, etc
- Support remote networking and secure remote access to terminal devices
- Support network IO management and remote control of switches
- Support RTC clock
- Support breakpoint resume for data acquisition and GNSS data

Specifications

Hardware Specifications		
Cellular	4G Global Frequency Bands	TDD-LTE: Band 34/38/39/40/41 FDD-LTE: Band 1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 WCDMA: B1/2/4/5/6/8/19 GSM/GPRS/EDGE: B2/3/5/8
	Antenna Interface	2×Standard SMA-K interface (outer screw and inner hole)
	SIM Card Slot	2×Nano-SIM
Ethernet Interface	Number of Ethernet Ports	2×WAN/LAN+6×LAN+2×SFP SFP: 1×WAN/LAN+1×LAN
	Ethernet Ports Specifications	RJ45: 10/100 /1000Mbps，IEEE 802.3 SFP: Gigabit fiber port Built-in 1.5KV network isolation transformer protection
Terminal Blocks	V+, V-	Built-in reverse polarity protection
	GND	Grounding terminal
	Tx	RS232
	Rx	RS232
	A	RS485
	B	RS485
	DI1	Digital input port
	DO1	Digital output port
	Com	Common terminal for DO

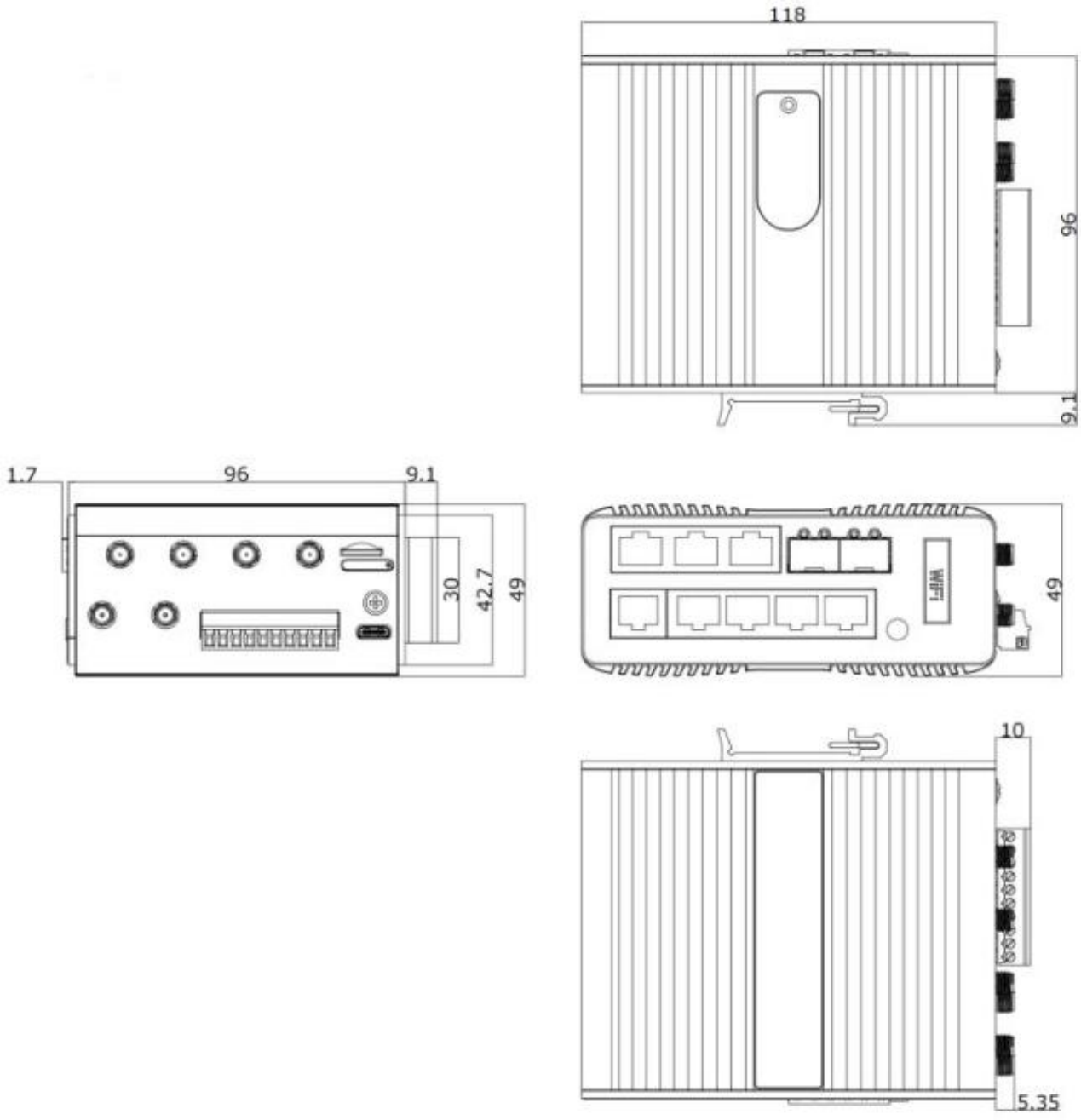
Wi-Fi 6	Antenna Interface	2×Standard RP-SMA-K interface (External screw and internal pins)
	MIMO	2×2
	Standard and Frequency Band	Support IEEE802.11b/g/n/ac/ax，2.4GHz&5.8G
	Wireless Functionality	AP / STA/ Repeater / Bridge
	The Rate of Theory	2976 Mbps (5GHz: 2402Mbps,2.4GHz: 574Mbps)
	Secure Encryption	No encryption/mixed-psk/psk/psk2/psk2+ccmp
	Transmission Distance	Open outside / no obstruction, coverage radius up to 200 meters; Indoor office environment/barrier, coverage radius up to 40 meters Note: The measured rate is affected by the field environment. Please take the measured rate as the standard.
	Theoretical Device Capacity	2.4G+5.8G: 256
Positioning Function	Antenna Interface	1×Standard SMA-K interface (external screw and internal hole)
	Positioning Criteria	GPS
Power Supply	Adapter	DC12V/2.5A
	Power Supply Interface	Industrial terminals blocks with reverse polarity protection
	Power Input	DC 9-60V
Serial Port	RS485+RS232	Industrial terminal blocks

	Baud Rate（bps）	1200,2400,4800,9600,19200,38400,57600,115200,230400
	Data Bit	7,8
	Stop Bit	1,2
	Check Bit	NONE, ODD, EVEN
Software Functions	VPN	PPTP, L2TP, IPSec, OpenVPN, GRE, VXLAN, WireGuard
Physical Characteristics	Hull	Aluminum alloy shell, dustproof grade IP40
	Size	118.0×96.0×48.7mm（L×W×H, Parts and antenna seats are not included）
	Installation	Din-rail installation, horizontal desktop placement
	EMC	National standard 3B grade
	Working Temperature	-40℃~+75℃
	Storage Temperature	-40℃~+85℃
	Working Humidity	5%~95% (Non-condensing)
Other	Reset/Switch Screens	Long-press for 5-15 seconds to restore factory settings, and short-press for 1-3 seconds to switch screens.
	USB	Support USB flash drives to expand storage space
	SD Card Slot	Support SD card to expand storage space
	RTC	RTC
	Ground Protection	Grounding screws

	Built-in Watchdog	Support self-detection of equipment and self-recovery of faults
	LED	Display the basic information of the router

Dimensions

Unit: mm



Ordering Information

Standard Model	Copper Port	Fiber Port	RS232	RS485	Input Voltage
CJ-2GF8GT-DIDO	8	2	1	1	DC 9-60V

Contact Us

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