



- 5G NR/4G LTE
- Dual SIM
- VPN
- Management

*: The picture is for reference only

Industrial IoT Gateway

BRAX FA4225

Key Features

- 5G NR/4G LTE
- Dual SIM
- IPSec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- Industrial-grade Design
- DIN-Rail/wall-Mounted

Hardware solution

- Qualcomm platform
- 5×GE ports
- RS232+RS485
- DI+DO
- 802.11ac

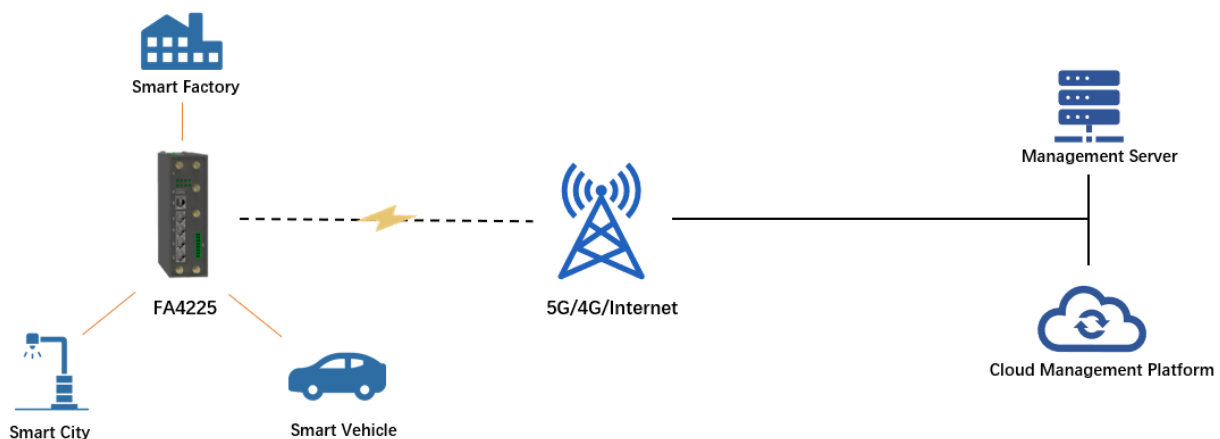
Introduction

The FA4225, Da Ta standard Level Industrial IoT Gateway, is innovative for IoT applications.

Based on Qualcomm Solution, Da Ta can offer state-of-art hardware features with full software functions. Based on OpenWRT, FA4225 can support rich networking protocols and edge computing features, security features and industrial protocols. It includes TR069, RIP, OSPF, BGP, multiple VPN, modbus and MQTT protocol, etc. Moreover, it is able to offer secondary development for IoT applications.

As innovative IoT player, we are keen to offer solutions for industrial automation, smart city, commercial applications and smart grid, etc.

Diagram Scheme



Industrial IoT Gateway

BRAX FA4225

Features & Specification

Hardware Specs

Platform

- CPU: Qualcomm

Memory

- DDR: 512MB
- FLASH: 256MB

NR/LTE module

- Selectable
- Support GPS*

WiFi

- 802.11 b/g/n/ac, 2*2
- 802.11 a/n/ac, 2*2

RTC

- RTC circuit

Interface

NR & LTE & GPS Antennas

- 4x5G NR antennas
- 2x4G LTE antennas
- 1xGPS antenna*
- External SMA female ports

WiFi Antenna

- 2xDual Band, External Antenna

SIM card slots

- 2 × Microsim
- Dual SIM Single Standby

SD card slot

- 1xMicroSD (MAX to 64GB)

Serial Port

- 1xRS232 + 1xRS485
- Can switch to 2xRS232 or 2xRS485

I/O Port*

- 2xDI + 2xDO

WAN/LAN port

- 1 × 10/100/1000Base-TX WAN/LAN
- 4 × 10/100/1000Base-TX LAN

Magnet isolation

- 1.5KV

USB

- 1 × USB2.0

LED

- LEDs / Green
- SYS, LAN, WiFi, LTE, NR, VPN, SIM1, SIM2

Button

- Reset button

EMC & Physical Specs

EMC

- ESD: EN 61000-4-2, level 4
- RS: EN 61000-4-3, level 4
- EFT: EN 61000-4-4, level 4
- CS: EN 61000-4-6, level 3
- Surge: EN 61000-4-5, level 3
- EMF: EN61000-4-8, level >4

Physical Specs

- Shockproof: IEC60068-2-27
- Vibration Resistance: IEC60068-2-6
- Free Fall: IEC60068-2-31

Mechanical Specs

Power supply

- DC/DC (9-36V/2A) isolated voltage 1.5KV

Environment

- Operating temperature: -25°C~70°C
- Storage temperature: -40°C~85°C
- Relative humidity: 5 to 95% (Non-condensing)

Dimension

- About 152×135×50mm
- Weight: about 910g

Protection Rate

- Metal Housing
- IP30

Mechanic

- DIN-Rail
- Wall Mounted

Software Specs

Industrial/IoT Protocols

- Modbus RTU/TCP
- Secondary development: Open API
- MQTT

Network Protocols and Features

- Connection modes: PPPoE/DHCP/Static
- IPv4, IPv6, IPv4/IPv6
- DHCP v4/v6 server
- Static (v4/v6) routing and RIP-1/2, RIPng
- NAT/ALG/DMZ/Virtual server
- ARP/ICMP/DNS proxy
- IGMP snooping/IGMP proxy
- MLD snooping/MLD proxy
- SNTP
- OSPF¹, BGP¹
- SMTP¹, TLS¹, VRRP¹
- VPN: PPTP/L2TP/GRE/IPSec/DMVPN/OpenVPN
- VPN passthrough

Reliability

- Link Backup (mobile/wired/wifi)
- SIM switch
- QoS
- SMS Reboot
- Secure Boot

Firewall

- Built-in NAT firewall
- Defense of DoS/ARP attacks/Port scan
- DHCP/ARP/IGMP message suppression
- MAC/URL filtering
- Inflow/outflow filtering of IP/Protocol/Port

Management

- WebUI
- TR069/STUN
- SNMP
- 802.1x
- Online and local software update/rollback
- Syslog monitoring
- Local and remote diagnostic

Industrial IoT Gateway

BRAX FA4225

Model Selection

Main Frequency Selection			
Model	Area	Category	Frequency Band
FA4225-N51x	Europe	5G NR	5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79 LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE TDD: B34/B38/B39/B40/B41/B42/B43/B46/B48 WCDMA: B1/B2/B3/B4/B5/B6/B8/B19
FA4225-L04x	Europe	4G CAT4	LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8
Optional Module Selection			
Sub-Model	DI/DO	GPS	
FA4225-xxxD	●	●	
FA4225-xxxC	×	×	

Dimensioned Drawing

