PRODUCT SPECIFICATION

EG8200Mini-CNC

PRODUCT INTRODUCTION
产品介绍 ▶▶▶

EG series products are edge computing gateways launched by IOTRouter Chengdu. With its **rich hardware interfaces**, **drag-and-drop programming method**, **Zero Code design concept**, **convenient remote management** and other characteristics, It can **quickly**, **flexibly**, **accurately** and **efficiently** respond to various IoT industry needs.

EG series products abstract complex hardware interfaces, different industrial network protocols, etc. into Nodes one by one. Users can **use these Nodes flexibly to replace the traditional complex and inefficient coding process** by dragging and connecting. Really let customers focus on business logic and quickly create their own gateway equipment. The mission of EG series products is to continuously develop new Nodes to serve industry customers to **adapt to the fragmentation of IoT industry needs**.

PRODUCT SPECIFICATION
产品规格 ▶▶▶

Model		EG8200Mini-CNC
Core Configuration	CPU	2 Cores A7@1.2G
	Memory	512M
	eMMC	4G
Storage	SD card	128G^{max} （Optional）
4G	Module	Quectel-CAT1（4G）
	Frequency Band	LTE-FDD：B1/B3/B5/B8 LTE-TDD：B34/B38/B39/B40/B41
	Transmit Power	LTE-FDD：Class 3 (23 dBm ±2 dB) LTE-TDD：Class 3 (23 dBm ±2 dB)
	Bandwidth (The maximum rate is theoretical, and the actual rate refers to the network configuration.)	LTE-FDD：Max 10Mbps(DL)/Max 5Mbps(UL) LTE-TDD：Max 8.96Mbps(DL)/Max 3.1Mbps(UL)
WiFi	Wireless Standards	IEEE 802.11b/g/n
	Wireless Frequency	2.4~2.4835GHz
	WiFi Mode	AP+Station
	Theoretical Rate	150Mbps
	Optimal Communication Distance	10m
	Number of AP Mode Links	20
Ethernet	WAN	1 * 10M/100M/1000M Self-Adaptive
	LAN	1 * 10M/100M Self-Adaptive
RS232	Number of Interfaces	1 Way
	Terminals	RX、TX、GND
	Baud Rate	2400~921600bps
	Data Bits	7、8
	Stop Bits	1、2
	Check Digit	NONE（No Check Digit）EVEN（Even Check）ODD（Odd Check）
	Protection	Anti-static, Anti-surge
RS485	Number of Interfaces	2-way
	Terminals	A、B
	Baud Rate	2400~921600bps
	Data Bits	7、8
	Stop Bits	1、2
	Check Digit	NONE（No Check Digit）EVEN（Even Check）ODD（Odd Check）
	Protection	Anti-static, Anti-surge

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产品规格 ▶▶▶

RTC	Local Clock	√
Electrical Parameters	Authentication	CE
	Adapter	12V/2A
	Operating Voltage	9~36V
	Operating Current	150mA/12V
Environmental Parameters	Operating Temperature	-40~85℃
	Storage Temperature	-40~85℃
	Operating Humidity	0~95%RH（No Condensation）
	Store Humidity	0~95%RH（No Condensation）
Mechanical Parameters	Size	125*95*32mm
	Housing Material	Aluminium Profiles　PC/ABS（AC2300）
	Installation	Guide Rail
	Heat Dissipation	Passive Cooling
	REST Button	Press and Hold for 10s to Reset
EMC	Electrostatic Discharge	Air Discharge　level3　±8KV Contact Discharge　level2　±4KV
	Surge	level2　±1KV
	Burst（EFT）	level2　±1KV
Software Features	Remote O&M	√
	Remote Management	√
	Remote Upgrades	√
	Virtual Network Port	√
	Virtual serial port	√
	Time Series Databases	√
	Visual Programming	√
	CNC Protocols	Various Mainstream CNC Brands
	Industry Protocols	CJ188 / DLT645 / HJ212 / IEC104 / Modbus / OPC UA / BACnet
	Network Protocols	MQTT / HTTP / TCP / UDP / WEB SOCKET / Alibaba Cloud IoT Platform / OneNET
System	System	Linux
	Version	Ubuntu 20.04.5 Custom Edition

THE APPENDIX

附录 ▶▶▶

EG8200Mini-CNC Series Support Protocol			
Note: Each CNC brand selected a representative model for testing, and the rest of the supported model information is from the official document			
Brand	Interface	Collection method	CNC 型号
SIEMENS (西门子)	Ethernet	Ethernet protocol collection	SINUMERIK 808D（ADVANCED）
	Ethernet	Ethernet protocol collection	SINUMERIK 802D sl（Value/Plus/Pro）IP cannot be changed
	Ethernet	Ethernet protocol collection	SINUMERIK 810D
	Ethernet	Ethernet protocol collection	SINUMERIK 840D WinNT
	Ethernet	Ethernet protocol collection	SINUMERIK 840D/840D pl WinXP
	Ethernet	Ethernet protocol collection	SINUMERIK 828D
	Ethernet	Ethernet protocol collection	SINUMERIK 840D sl WinXP/Win7(PCU)
	Ethernet	Ethernet protocol collection	SINUMERIK 840D sl Linux(TCU)
MELSEC (三菱)	Ethernet	Ethernet protocol collection	MITSUBISHI M70/700 C70/700
	Ethernet	Ethernet protocol collection	MITSUBISHI M80/800
	Ethernet	Ethernet protocol collection	MITSUBISHI M700/M800（Windows）
Mazak (马扎克)	Ethernet	Ethernet protocol collection	640T/640M(Win95/2K)
	Ethernet	Ethernet protocol collection	Matrix Nexus2 (Win7)
	Ethernet	Ethernet protocol collection	Smart
	Ethernet	Ethernet protocol collection	Smooth C
	Ethernet	Ethernet protocol collection	Smooth G/X(Win8)
Heidenhain (海德汉)	Ethernet	Ethernet protocol collection	ITNC 530 HSCI
	Ethernet	Ethernet protocol collection	ITNC 530
Fanuc (发那科)	Ethernet	Ethernet protocol collection	0i B/C/D/F Series
	Ethernet	Ethernet protocol collection	15i/16i/18i/21iB Series
	Ethernet	Ethernet protocol collection	30i/31i/32i A/B Series
Haas (哈斯)	Serial port	Serial protocol collection	HAAS
	Ethernet	Ethernet protocol collection	HAAS(100.16.000.1023/1013)
*Fagor (发格)	Serial port	Serial protocol collection	FAGOR 8055
	Ethernet	Collect network port protocols	FAGOR 8065/8070
Knd (凯恩帝)	Ethernet	Ethernet protocol collection	All systems above V4.3 are supported
GSK (广州数控)	Ethernet/Serial port	Ethernet/Serial protocol collection	GSK988TA/980TDI and above
Brother (兄弟机床)	Ethernet	Ethernet protocol collection	Support all ethernet machines such as A00/C00
LNC (宝元)	Ethernet	Ethernet protocol collection	Support all ethernet machines

WIRING INSTRUCTION
接线说明 ▶▶▶

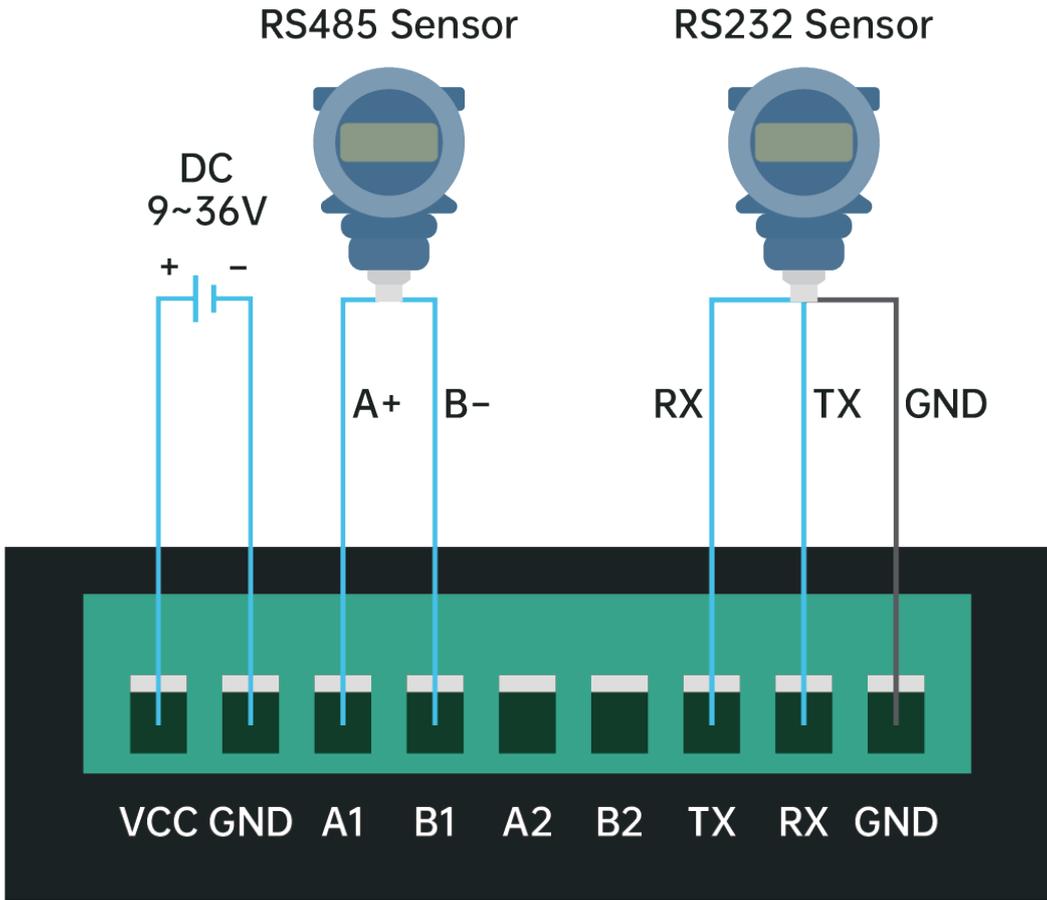EG8200Mini-CNC Interface Identification-1

VCC GND A1 B1 A2 B2 Tx Rx GND

LAN   WAN

EG8200Mini-CNC Interface Identification-1

WIRING INSTRUCTION
接线说明 ▶ ▶ ▶

Power & Serial port Wiring Diagram

INSTALLATION INSTRUCTION
安装说明 ▶▶▶

95mm

4G WiFi

RST ○

SIM   TF

32mm

10mm

LED-1   LED-2
4G   WiFi
RUN   POW

125mm

IOTROUTER® 成都纵横智控科技有限公司

边缘计算网关
型号：EG8200Mini-CNC
电源规格：DC9~36V
管理页面：192.168.88.1
管理密码：EG12345678

S/N: 02C000888888888

DIN35MM
Guide Rail

32.5mm

95mm
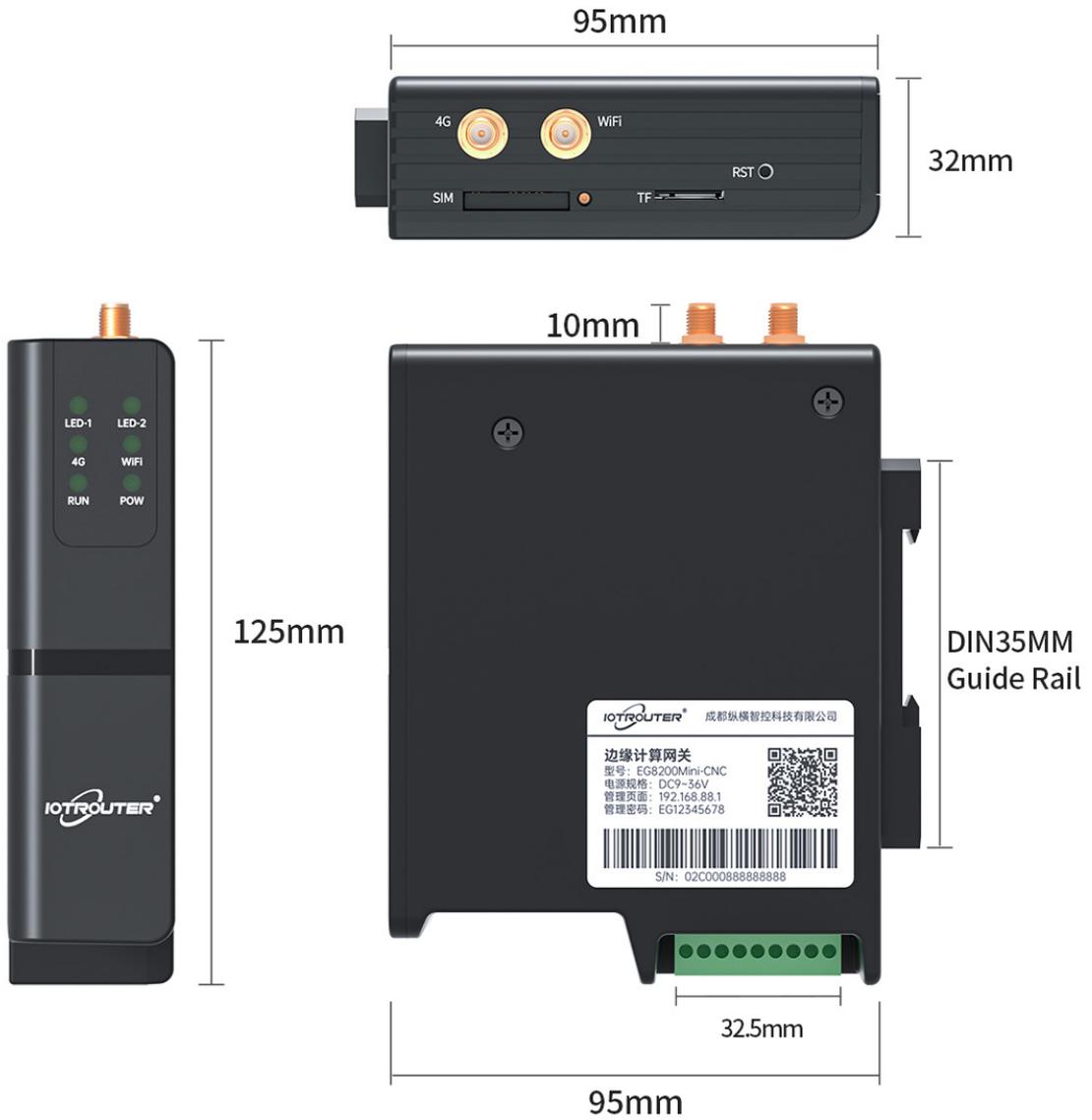
Product Size

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