Devanture

PRODUCT SPECIFICATION

EV8010

Devanture Technologies (S) Pte. Ltd.

Product Introduction

The EV series is an HMI gateway launched by Chengdu Zongheng Intelligent Control Technology Co., Ltd., which integrates data acquisition gateway and touch screen. It not only inherits all the functions of the EG series, but also supports WEB configuration (VISION), paired with a high-definition LCD touch screen, to meet the needs of different IoT application scenarios.

VISION is a powerful browser based data visualization software. By using VISION, a highly personalized data visualization interface can be quickly created through simple drag and drop operations. Rich configuration resources, detailed usage information, continuously improving template libraries, and sufficiently open design concepts provide users with a flexible, innovative, convenient, and free programming experience.

Product Specification

Hardware parameters	Display Screen	10.1" 16:9 TFT LCD
	Viewing Angle	85'/85'/85'/85' (T/B/L/R)
	Number Of Pixels	1280(H)×800(V)
	Display Colors	16.7M
	Brightness	400 cd/m²
	Backlit	LED
	LED Lifetime	>50000h
	Touch Screen	10 Point Capacitive
	CPU	ARM Cortex-A55@1.8GHz
	RAM	LPDDR4 2GB，32bits
	Storage	16GB eMMC
	RTC	Built-in Real-time Clock
	Ethernet	1 * WAN (GE)
		1 * LAN (FE)
	USB	1 * USB2.0
	Serial Port	1 * RS232
		2 * RS485
	4G Full Netcom	Optional
Software parameters	Operating System	Linux
	Visual Programming	Support
	WEB Configuration	Support
Electrical parameters	Rated Power	<8W
	Power Supply	DC9~36V
	Power Protection	Anti-static, Anti-surge, Anti-reverse Connection
Environmental parameters	Operating Temperature	-20~70℃
	Storage Temperature	-30~70℃
	Environmental Humidity	10~90%RH (Non-condensing)
	Heat Dissipation	Passive Heat Dissipation
Mechanical parameters	Installation	Embedded Installation
	Shell Material	Dip Zinc Alloys
	Overall Size	300mm×203mm×31.4mm
	Suggested Hole Size	282.5mm×182.5mm

The APPENDIX

EG8200 Series Edge Computing Gateway PLC Protocols

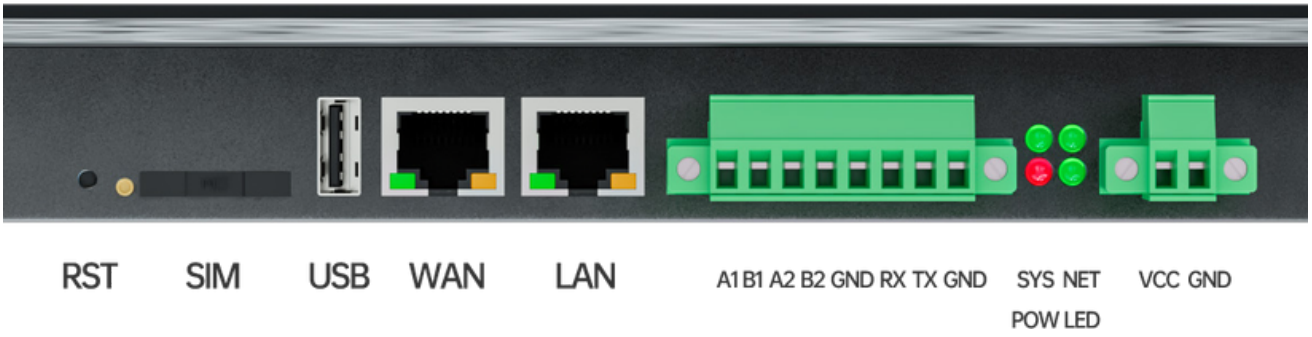
The gateway is categorized according to the hierarchical structure of brand->protocol->model, and representative PLC models are selected for testing in each category. The rest of the supported models are from the official documents.
Note: The gateway supports the standard MOBUDS RTU/TCP protocol, which is supported by all mainstream PLCs. (For example, HollySys, Haiwell, Yokogawa, Runpower, etc.)

Brand	Protocol	Interface	PLC Model
SIEMENS（西门子）	Tips：		Siemens in the sale of the series all support S7 protocol communication, it is recommended to use the S7 protocol communication.
	S7	Ethernet	S7-S200smart、S7-S200 Series、S7-S300 Series、S7-S400 Series、S7-S1200 Series、S7-S1500 Series
	PPI	Serial port	S7-200 Series
MELSEC（三菱）	Tips：		Mitsubishi mainly uses MC protocol for communication, FX5 Series, FX3 Series, Q Series, etc. are tested.
	EtherNet/IP	Ethernet	FX5-ENET/IP Series、RJ71EIP91 Series、QJ71EIP71 Series
	MC-1E/MC-3E	Ethernet	FX5 Series、RJ71EN71 Series、RnENCPU Series、LJ71E71 Series、QJ71E71 Series、QnUCPU Series、FX3 Series
	MODBUS TCP	Ethernet	FX5 Series、RJ71EN71 Series、RnENCPU Series、LJ71E71 Series、QJ71E71 Series
	MC-3C	Serial port	FX5 Series、RJ71C24 Series、LJ71C24 Series、QJ71C24 Series
	MODBUS RTU	Serial port	FX5 Series、RJ71C24 Series、LJ71C24 Series、QJ71C24 Series、FX3 Series
	FxLinks	Serial port	FX3 Series、FX2 Series、FX1 Series、FX0 Series
	FxSerial	Serial port	FX3 Series、FX2 Series、FX1 Series、FX0 Series
OMRON（欧姆龙）	Tips：		Omron mainly uses the Fins protocol for communication.
	EtherNet/IP	Ethernet	NX7 Series、NX1 Series、NX1P Series、NJ Series、CJ1W-EIP21
	Fins	Ethernet	CP Series、CS Series、CJ Series、CV Series
	HostLink	Serial port	CP Series、CS Series、CJ Series、CV Series、C Series
LSis（LS电气）	Tips：		LS mainly uses FEnet/Cnet protocol for communication.
	XGB FEnet	Ethernet	XGB Series（XBC/XEC U、XBL-EMTA）
	XGK FEnet	Ethernet	XGT Series（XGL-EFMT、XGL-EFMF、XGL-EH5T）
	XGB Cnet	Serial port	XGB Series（XBC/XEC U、XBL-C21A、XBL-C41A）
	XGK Cnet	Serial port	XGT Series（XGL-CH2A、XGL-C21A、XGL-C41A）

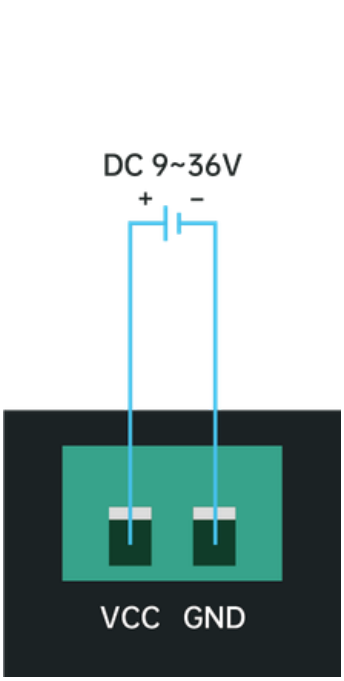
The APPENDIX

Brand	Protocol	Interface	PLC Model
AllenBrandly（罗克韦尔）	Tips：EtherNet/IP		Rockwell mainly uses CIP, DF1 protocol for communication.
		Ethernet	ControlLogix Series、CompactLogix Series、Micro800 Series（820、850、870）
	DF1	Serial port	ControlLogix Series、CompactLogix Series（5069-SERIAL module）、Micro800 Series（820、830、850、870） SLC Series（500、5/03、5/04、5/05）、Micro-Logix Series（1000、1100、1200、1500）
Beckhoff（倍福）	Tips：		Beckhoff mainly uses the ADS protocol for communication.
	ADS	Ethernet	CX Series、TwinCAT2、TwinCAT3
Inovance（汇川）	Tips：		Inovance mainly adopts MODBUS protocol for communication.
	MODBUS TCP	Ethernet	AC Series、AM Series、H5U Series、H3U Series
	MODBUS RTU	Serial port	AC Series、AM Series、H5U Series、H3U Series、H1U Series
Keyence（基恩士）	Tips：		Keyence mainly uses the KV protocol for communication.
	MC-3E		KV-8000 Series、KV-7000 Series、KV-5500 Series、KV-5000 Series、
	KV	Ethernet	KV-EP21V、KV-LE21V、KV-LE20V、KV-LE20A and other Ethernet units
	KV	Ethernet	KV-7300、KV-3000、KV-1000、KV-700、KV Nano、KV-L21V、KV-L20V
	Tips：	Serial port	Panasonic mainly uses the Mewtocol protocol for communication.
Panasonic（松下）	MC-3E		FP7 Series、FP0H Series、FP-XH Series
	Mewtocol	Ethernet	FP7 Series、FP0H Series、FP-XH Series
	Mewtocol	Ethernet	FP7 Series、FP0H Series、FP-XH Series、FP-X0 Series、FP0R Series
	Tips：	Serial port	Delta mainly uses MODBUS protocol for communication.
Delta（台达）	MODBUS TCP		AH Series、AS Series、AX-3 Series、DVP Series（built-in Ethernet）
	MODBUS RTU		AH Series、AS Series、AX-3 Series、DVP Series
	Tips：	Ethernet	XinJE mainly uses MODBUS protocol for communication.
	MODBUS TCP	Serial port	CCSD Series、XA Series、XS Series、XG Series、XL Series
XinJE（信捷）	MODBUS RTU		CCSD Series、XA Series、XS Series、XG Series、XL Series、XC Series、XD Series
	Tips：	Ethernet	MegMeet mainly uses MODBUS protocol for communication.
	MODBUS TCP	Serial port	MC5100 Series、MC280 Series、MC200 Series、MC100 Series、MC80 Series
	MODBUS RTU		MC5100 Series、MC280 Series、MC200 Series、MC100 Series、MC80 Series
MegMeet（麦格米特）	Tips：		Yaskawa mainly uses the MEMOBUS protocol for communication (supports S7).
	Memobus	Ethernet	
	Tips：	Serial port	GL120/130 Series、GL60 Series、MP3000 Series、MP2300 Series、Z1000 Series
Yaskawa（安川）	Fatek		Fatek mainly uses the Fatek protocol for communication.
	Tips：		
		Ethernet	
Fatek（永宏）			
		Serial port	FBs Series
Vigor（丰炜）			Vigor mainly uses the VS private protocol for communication.
	VS	Serial port	VS Series
Fuji（富士）	Tips：		Fuji mainly uses the SPH/SPB protocol for communications.
	SPH	Ethernet	SPH Series
	SPB		SPB Series
		Serial port	

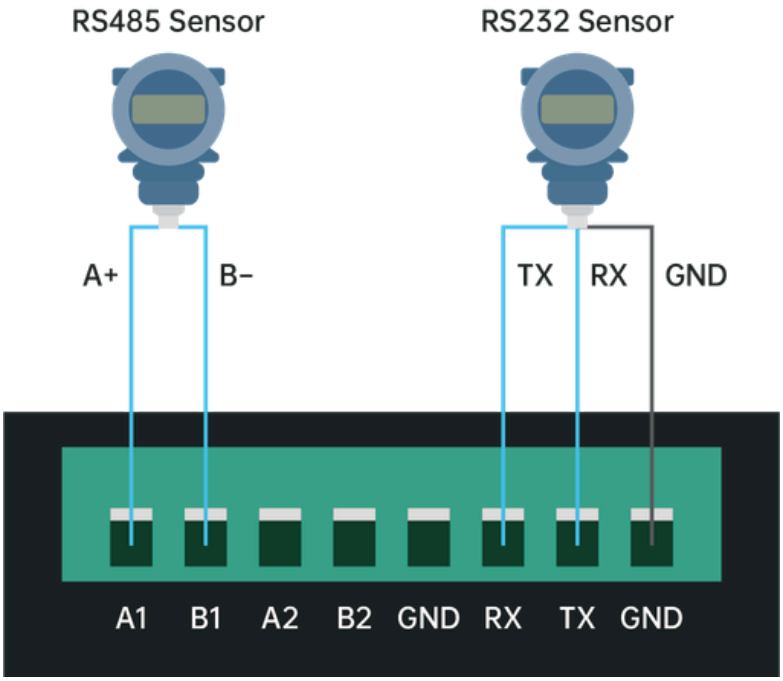
Wiring Instruction



EV8010 Interface Identification



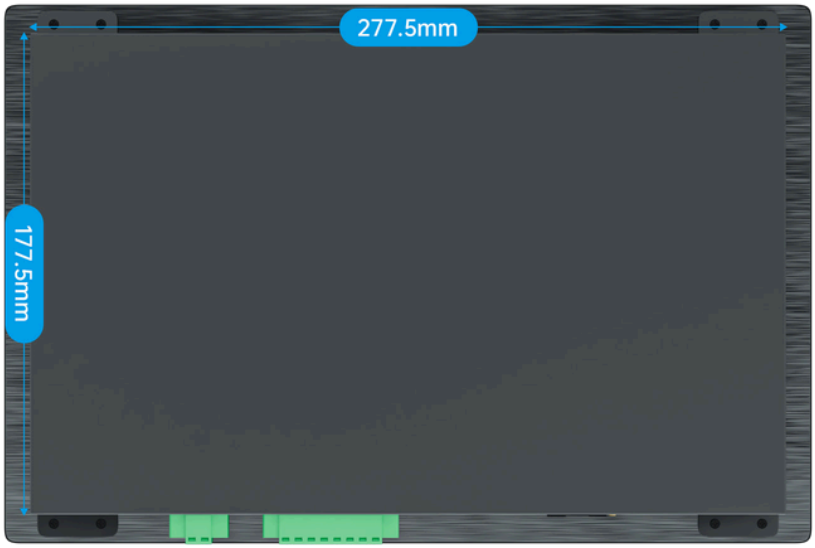
Power Wiring Diagram



RS485/RS232 Wiring Diagram

Installation Instruction

Front Size

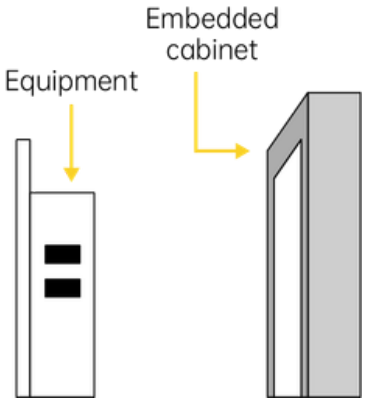


Back Size

Installation Instruction

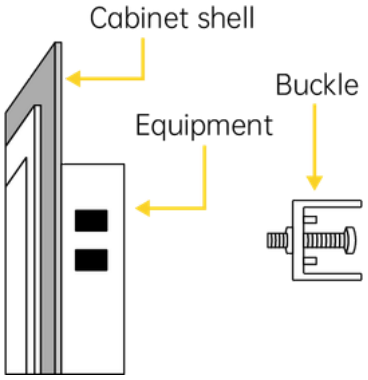
Step 1.

Before installation, it is necessary to open the corresponding installation hole size, which is slightly larger than the equipment. It is recommended to open the hole size of 282.5mm x 182.5mm.



Step 2.

Place the equipment in the reserved installation holes.



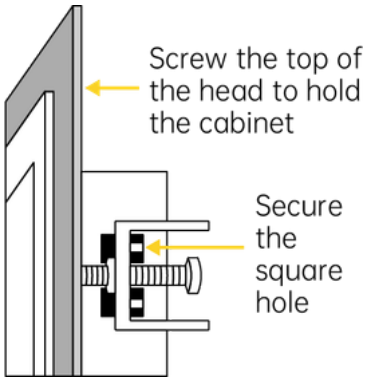
Step 3.

There are two square holes on each side of the device.

When installing, use a buckle to fasten one end of the square hole,

Hold the buckled screw head against the cabinet and tighten the screws.

The other three places are the same.



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