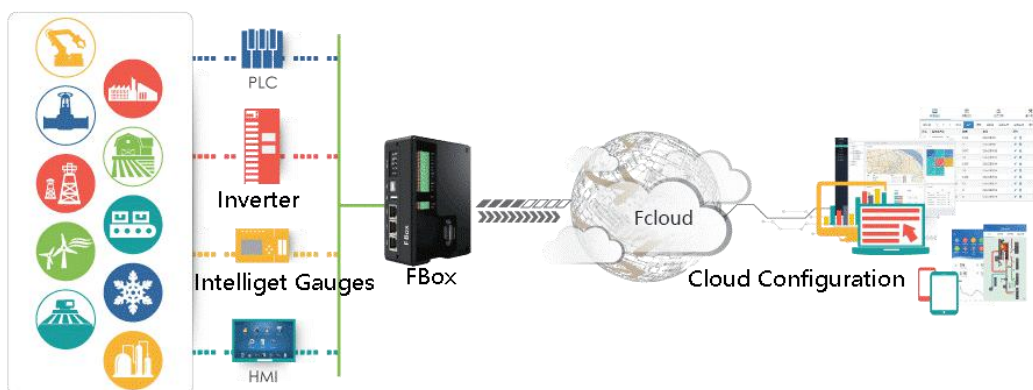# Flexem IIoT FBox Products

FBox-VPN

- 350+ industrial protocols connection, and it supports most industrial devices connection.
- Local data analysis can be finished and pushed to the cloud server.
- It supports edge calculation, and you can realize data calculation locally.
- It supports Flexem remote managing tool, remote equipping and diagnosis.
- It supports PLC program uploading, downloading and monitoring.
- It supports historical data local cache.
- With 4G router function, to provide network for other devices.
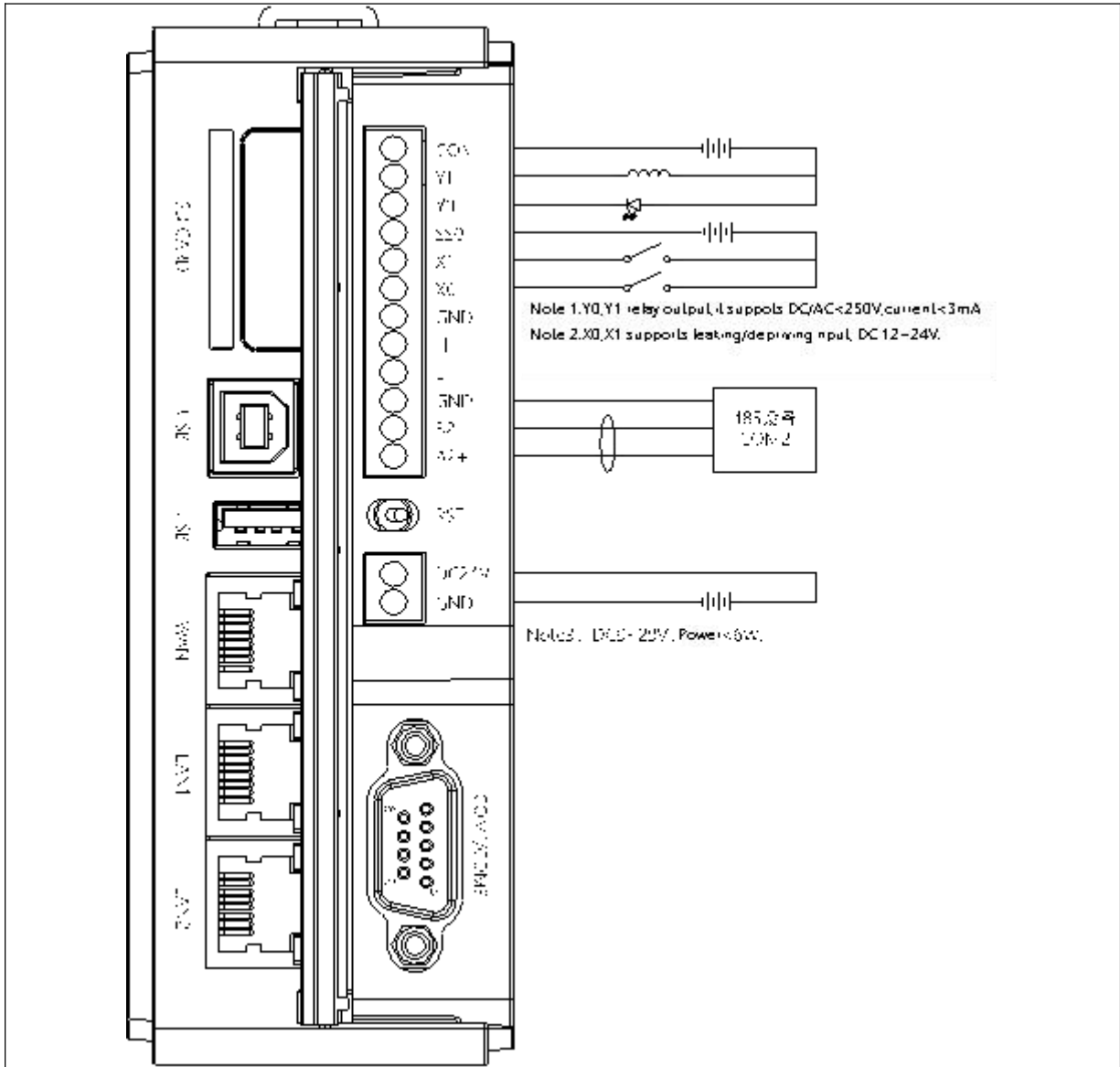
Products Overview

FBox series products are local intelligent data collection terminals of industrial IIoT platform pushed by Flexem, which can realize on-site devices remote data collection, remote downloading and maintenance. It supports over 350 industrial devices drives protocols, various communication connections to most industrial controller devices. It supports variable internet ways and Flexem cloud server, and you can realize remote equipping, diagnose and managing functions.
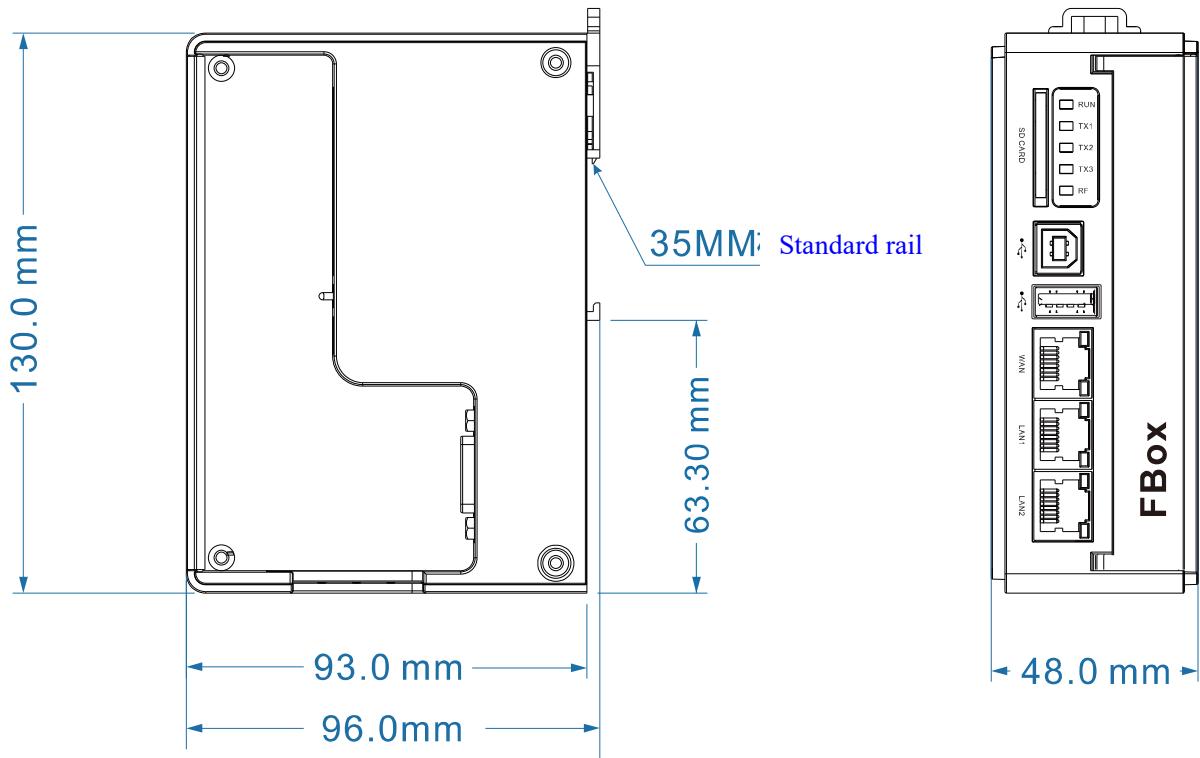
Specifications

Hardware	Network access	Ethernet
	CPU	600MHz ARM Cortex-A8
	Storage	128MB Flash + 128MB DDR3
	Ethernet	3 lines of 10M/100M Ethernet Port
	SD Card Port	Available
	USB Port	USB Device 2.0 port*1, USB Host 2.0 port*1
	IO Port	2-line optoelectronic isolated digital input, 2-line relay output (Maximum5A)
	COM Ports	COM1：RS232/RS485/RS422 COM2：RS485 COM3：RS232
	RTC	Built in
Electrical Specifications	Power Consumption	< 5W
	Input Power	DC24V,working range DC 9V~28V
	Power Protection	Protected from thunder strike and surging
	Power Down Allowed	< 3mS
	CE & RoHS	Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV
Environment Specifications	Working Temperature	-10~60℃
	Storage Temperature	-20~70℃
	Environment Humidity	10~90%RH (non condensation)
	Anti-vibration	10~25Hz (X/Y/Z direction 2G/30 minutes)
	Cooling	Natural air cooling
Mechanic Parameters	Dimension	130mm×94mm×48mm(without arial)
	Weight	About 305g
	Material	Engineering plastics
Software Parameters	VPN transparent transmission	Available
	Data Monitoring	300 points, it supports timing uploading or variable uploading.
	Alarming Push	100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push.
	Historical Data	30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days
	Edge Calculation	It supports scripts programming.
	Network Protocols	It supports over 100 industrial devices protocols.
	Managing& Maintenance	It supports firmware upgrading remotely, and equipping files lead in/out

Wiring Definition

Note 1.Y0,Y1 relay output,it supports DC/AC<250V,current<3mA

Note 2.X0,X1 supports leaking/depriving input, DC 12~24V.

Note3 . DC5~28V, Power<6W.

Pin5 ... Pin 9 / Pin 1 ... Pin 6	Pin1	Rx-(B） (COM1 RS485-2/4)
	Pin2	RxD_PLC (COM1 RS232)
	Pin3	TxD_PLC (COM1 RS232)
	Pin4	Tx- (COM1 RS485-4)
	Pin5	GND
	Pin6	Rx+(A) (COM1 RS485-2/4)
	Pin7	RxD_PC/PLC (COM3 RS232)
	Pin8	TxD_PC/PLC (COM3 RS232)
	Pin9	Tx+ (COM1 RS485-4)

Size

35MM Standard rail

130.0 mm

63.30 mm

93.0 mm

96.0mm

48.0 mm

SD CARD
RUN
TX1
TX2
TX3
RF

WAN
LAN1
LAN2

FBox

Contact Us

Shanghai (R&D Center)

Address: Floor 11, Block B, INNO
            Center, No.298, Guoxia Road
            Yangpu District, Shanghai
Telephone: +86-21-68683993
Fax: +86-21-65107569

Suzhou

Address: Room 505, Ricky Building,
            No.668,Yuting Avenue,Suzhou
            Industrial Park

Telephone: +86-512-69833996

Shenzhen (Factory)

Address: 5th Floor, NO.2 Building,
            Lanyun Science Park, Tangtou
            Road, Shiyan Town, Baoan
            District, Shenzhen, China
Telephone: +86-755-27610682

Wuxi

Address: Room 1603, Taihu
            Mingzhu Development
            Building, No. 1890 Taihu
            West Road, Binhu District,
            Wuxi City

Beijing

Address: Room 2008, Building 1, No. 93
            Jianguo Road, Chaoyang
            District, Beijing (Wanda Plaza)
Telephone: +86-10-58204608
Fax: +86-10-58204608

Hangzhou

Address: Floor 1, Unit LEO, Block 5,
            Singapore Science Park, Road
            6th, Xiasha Economic
            Development Zone,
            Hangzhou