

Flexem IIoT FBOX Products

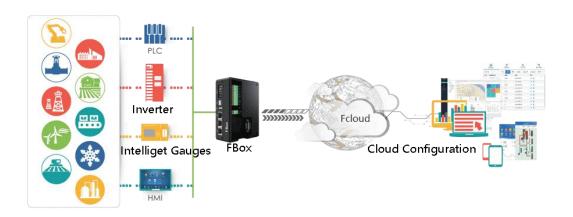
FBox



- 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.



Website: www.flexem.com

Tel: 4008-033-022



Specifications

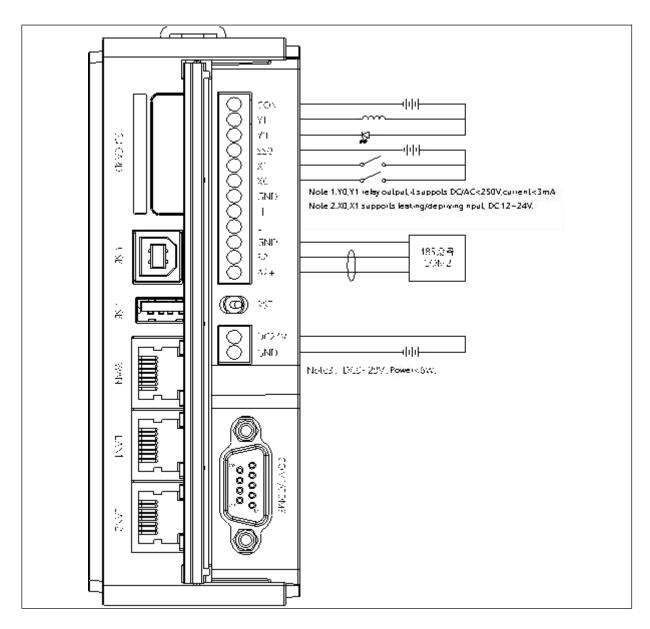
IO Port output (Maximum5A) COM1: RS232/RS485/RS422 COM Ports COM2: RS485 COM3: RS232 RTC Built in Power Consumption 5 W Input Power DC24V,working range DC 9V~28V Power Down Allowed <3 ms Complied with EN61000-6-2:2005, EN61000-6-4:2007, ROHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV Working Temperature -10~60 °C Storage Temperature -20~70 °C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/V/Z direction 2G/30 minutes) Cooling Natural air cooling Mechanic Parameters Data Monitoring Data Monitoring Data Monitoring Data Monitoring Doints, it supports timing uploading or variable uploading. Alarming Push Town output Maximum5A) COM2: RS485 COM3: RS232 RTC Built in Pover Consumption DC24V,working range DC 9V~28V Complied with EN61000-6-2:2005, EN61000-6-4:2007, air supports timing uploading or variable uploading. Alarming Push Town output Maximum5A 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. Software Parameters Historical Data Soponts, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days			
Hardware Electrical Specifications Power Consumption Power Consumption Power Consumption Power Protection Power Protection Protected from thunder strike and surging Power Down Allowed Aims Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV Working Temperature -10-60°C Storage			
Hardware 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) COM1: RS232/RS485/RS422 COM Ports COM2: RS485 COM3: RS232 RTC Built in Power Consumption < 5W Input Power Dover Dover Allowed < 3mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, Air:8KV Air:8KV Air:8KV Air:8KV Air:8KV Mechanic Parameters Mechanic Parameters Parameters Environare Parameters Ethernet SD Card Port Available and points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days	Hardware	CPU	600MHz ARM Cortex-A8
Hardware SD Card Port USB Device 2.0 port*1, USB Host 2.0 port*1		Storage	128MB Flash + 128MB DDR3
Hardware USB Port USB Device 2.0 port*1, USB Host 2.0 port*1		Ethernet	3 lines of 10M/100M Ethernet Port
Hardware IO Port 2-line optoelectronic isolated digital input, 2-line relay output (Maximum5A) COM1: RS232/RS485/RS422 COM2: RS485 COM3: RS232 RTC Built in Power Consumption Input Power Power Protection Power Down Allowed Electrical Specifications Working Temperature Environment Specifications Mechanic Parameters Mechanic Parameters Parameters IO Port 2-line optoelectronic isolated digital input, 2-line relay output (Maximum5A) COM1: RS232/RS485/RS422 COM2: RS485 COM3: RS232 RTC Built in Power Consumption Poc24V,working range DC 9V~28V Power Down Allowed - 5W Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/V/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not Available Data Monitoring Alarming Push Alarming Push Alarming Push Historical Data Historical Data Points, it supports timing uploading or variable uploading. 30 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		SD Card Port	Available
IO Port 2-line optoelectronic isolated digital input, 2-line relay output (Maximum5A)		USB Port	USB Device 2.0 port*1, USB Host 2.0 port*1
output (Maximum5A) COM1: RS232/RS485/RS422 COM Ports COM2: RS485 COM3: RS232 RTC Built in Power Consumption 55 W Input Power DC24V,working range DC 9V~28V Power Down Allowed 7 more of the strike and surging Power Down Allowed 3 mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Mechanic Parameters VPN transparent transmission Material Engineering plastics VPN transparent transmission Not Available Data Monitoring Data Monitoring 100 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. Software Parameters Historical Data for 90 days		IO Dout	2-line optoelectronic isolated digital input, 2-line relay
COM Ports COM2: RS485 COM3: RS232		10 Port	output (Maximum5A)
RTC Built in Power Consumption < 5 W Input Power DC24V,working range DC 9V~28V Power Protection Protected from thunder strike and surging Power Down Allowed < 3 mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not 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 400 deaps and the data can be kept for 90 days		COM Ports	COM1: RS232/RS485/RS422
RTC Built in Power Consumption < 5W Input Power DC24V,working range DC 9V~28V Power Protection Protected from thunder strike and surging Power Down Allowed < 3mS Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not 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. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days			COM2: RS485
Power Consumption < 5W Input Power DC24V,working range DC 9V~28V			COM3: RS232
Input Power DC24V,working range DC 9V~28V		RTC	Built in
Power Protection Protected from thunder strike and surging		Power Consumption	< 5W
Power Down Allowed Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV		Input Power	DC24V,working range DC 9V~28V
Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not 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. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days	Electrical	Power Protection	Protected from thunder strike and surging
CE & RoHS RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity -10~90%RH (non condensation) Anti-vibration Cooling Natural air cooling Dimension -130mm×94mm×48mm(without arial) Weight About 300g Material Weight About 300g Material VPN transparent transmission Data Monitoring Software Parameters Parameters RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV -10~60°C Storage Temperature -20~70°C Environment Humidity 10°90%RH (non condensation) -25Hz (X/Y/Z direction 2G/30 minutes) -26/30 minutes) Natural air cooling Dimension -130mm×94mm×48mm(without arial) -100 points, it supports timing uploading or variable uploading100 points, it supports timing uploading or variable uploading100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push100 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days	Specifications	Power Down Allowed	<3mS
Air:8KV Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not 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 50000 items when offline, and the data can be kept for 90 days			Complied with EN61000-6-2:2005, EN61000-6-4:2007,
Environment Specifications Storage Temperature -10~60°C		CE & RoHS	RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV,
Environment Specifications Storage Temperature Environment Humidity Anti-vibration Cooling Natural air cooling Dimension Weight About 300g Material Engineering plastics VPN transparent transmission Data Monitoring Alarming Push Software Parameters Storage Temperature Environment Humidity 10~90%RH (non condensation) 10~25Hz (X/Y/Z direction 2G/30 minutes) 130mm×94mm×48mm(without arial) Weight About 300g Engineering plastics Not Available 300 points, it supports timing uploading or variable uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days			Air:8KV
Environment Specifications Environment Humidity Anti-vibration Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Data Monitoring Not Available Data Monitoring Alarming Push Software Parameters Historical Data Environment Humidity 10~90%RH (non condensation) 10~25Hz (X/Y/Z direction 2G/30 minutes) Natural air cooling Natural air cooling Panameters Not About 300g Engineering plastics Not Available 300 points, it supports timing uploading or variable uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Working Temperature	-10~60°C
Environment Humidity 10~90%RH (non condensation)	F	Storage Temperature	-20~70°C
Anti-vibration 10~25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 300g Material Engineering plastics VPN transparent transmission Not 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. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Environment Humidity	10~90%RH (non condensation)
Mechanic Parameters Dimension	Specifications	Anti-vibration	10~25Hz (X/Y/Z direction 2G/30 minutes)
Mechanic Parameters Weight About 300g Engineering plastics VPN transparent transmission Data Monitoring Alarming Push Software Parameters Not Available 100 points, it supports timing uploading or variable uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Cooling	Natural air cooling
Parameters Weight About 300g Engineering plastics VPN transparent transmission Not Available Data Monitoring Alarming Push Software Parameters Parameters Weight About 300g Engineering plastics Not Available 300 points, it supports timing uploading or variable uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Dimension	130mm×94mm×48mm(without arial)
Material Engineering plastics VPN transparent transmission Not 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. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Weight	About 300g
Data Monitoring Data Monitoring 300 points, it supports timing uploading or variable uploading.		Material	Engineering plastics
Software Parameters Data Monitoring uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		VPN transparent transmission	Not Available
Software Parameters Historical Data uploading. 100 points, it supports clients push, SMS push (20 items free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		-	300 points, it supports timing uploading or variable
Software Parameters Alarming Push free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days			uploading.
Software Parameters Historical Data free everyday), wechat public NO push. 30 points, it supports offline transfer, each point can store 50000 items when offline, and the data can be kept for 90 days		Alarming Push	100 points, it supports clients push, SMS push (20 items
Parameters 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			free everyday), wechat public NO push.
Historical Data store 50000 items when offline, and the data can be kept for 90 days		Historical Data	30 points, it supports offline transfer, each point can
			store 50000 items when offline, and the data can be kept
Edge Calculation It supports scripts programming.		Edge Calculation	It supports scripts programming.
Network Protocols It supports over 100 industrial devices protocols.			
It supports firmware upgrading remotely, and equipping		Managing& Maintenance	
Managing& Maintenance			files lead in/out

Website: www.flexem.com

Tel: 4008-033-022



Wiring Definition



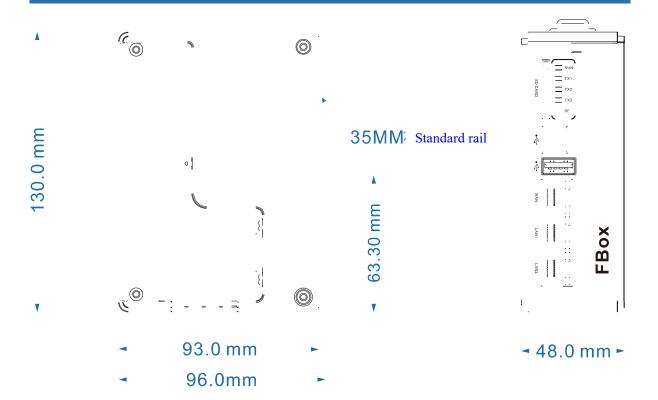
Pin 5		Pin 9	Pin1	Rx-(B) (COM1 RS485-2/4)
			Pin2	RxD_PLC (COM1 RS232)
			Pin3	TxD_PLC (COM1 RS232)
"" o "" o o o o			Pin4	Tx- (COM1 RS485-4)
			Pin5	GND
0 0			Pin6	Rx+(A) (COM1 RS485-2/4)
	Pin 6	Pin7	RxD_PC/PLC (COM3 RS232)	
Pin 1		Pin8	TxD_PC/PLC (COM3 RS232)	
		Pin9	Tx+ (COM1 RS485-4)	

Tel: 4008-033-022

Website: www.flexem.com



Size



Tel: 4008-033-022 We will push devices intellectualization step by step4

Website: www.flexem.com



Contact Us

Shanghai (R&D Center)

Address: Room 804, Lane 1688, North

Guoquan Road, Yangpu

District, Shanghai, China

Telephone: +86-21-68683993 Fax:

+86-21-65107569

Suzhou

Address: Room 915, Ricky Building,

No.668, Yuting Avenue, Suzhou

Industrial Park

Telephone: +86-512-69833996

Shenzhen (Factory)

5th Floor, NO.2 Building, Address:

> 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: Room 1005, Building 6,

> Dongsha Mingcheng, No. 159, Tiancheng East Road, Xiasha Development Zone,

Hangzhou

We will push devices intellectualization step by step5 Tel: 4008-033-022

Website: www.flexem.com