Flexem Industrial IOT FBox Series Products
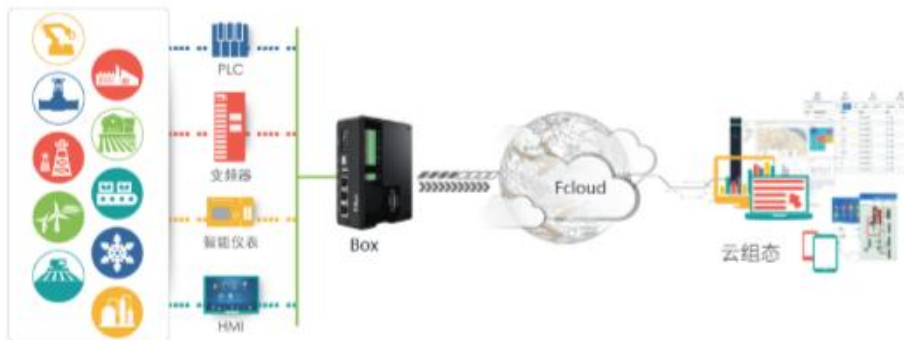**FBox-4G-Lite**

1.Over 350 industrial protocols connection and it supports most industrial devices connection.

2.It can finish data analysis locally to push the data to cloud service.

3.It supports Flexem remote managing tools and remote setting and diagnose.

4.It supports historical data local caching.

Products Overview

FBox series products are the on-site intelligent data collection terminals in the industrial IOT platform pushed by Flexem to realize on-site devices remote data collection, remote downloading and remote maintenance. It supports over 350 industrial devices protocols, various communication connections to satisfy most industrial controller devices needs. And it supports various networking ways and Flexem cloud server. And it can use Flexem remote managing platform to realize remote setting, diagnose and managing functions.
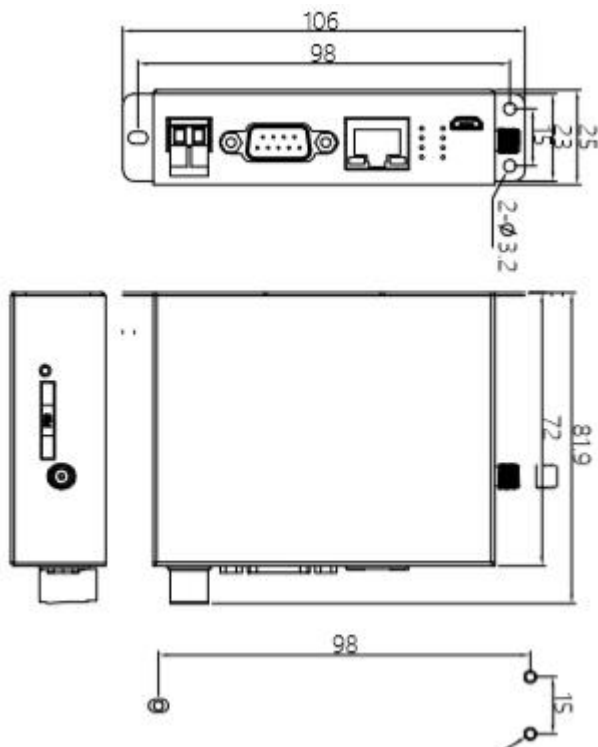
Products Specifications

Hardware Parameters	Network Access	Ethernet Mobile 2G/Unicom 2G/Telecom 2G Mobile 3G/Unicom 3G/Telecom 3G Mobile 4G/Unicom 4G/Telecom 4G
	CPU	300MHz ARM9
	Storage	128MB Flash+64MB DDR2
	Ethernet	1-line 10M/100M Self Adaption Ports
	SD Card	Non supporting
	USB Port	1 USB Device 2.0 access
	IO Port	None
	Serial Port	COM1:RS232/RS485/RS422 COM3:RS232
	Network Frequency	LTE FDD: B1/B3/B5/B8 lTE TDD:B38/B39/B40/B41 WCDMA:B1/B8 TD-SCDMA:B34/B39 CDMA:BC0 BSM: 900/1800MHz
	RTC	Built-in
Electric Specifications	Rated Power	<5W
	Rated Voltage	DC24V,working range: DC9V~28V
	Power Protection	Protect from lightening and surging
	Power loss Permit	<3ms
	CE&RoHS	Confirms to EN61000-6-2:2005 EN61000-6-4:2007 standard,ROHS Lightening:±1KV,group pulse: ±2KV, static Contact:4KV, air discharge:8KV
Environment Requirements	Working Temperature	-10~60C
	Storage Temperature	-20~70C
	Environment Temperature	10~90%RH(Non condensate)
	Anti-vibration	10~25Hz(X,Y,Z direction 2G/30 minutes)
	Cooling Way	Natural Cooling
Mechanic Standard	Size	90mm×75mm×25mm(without antennas)
	Weight	About 220g
	Material	Galvanized sheet.The surface is with powder spraying treatment.
Software Parameters	Transmission	Supporting(It does not support VPN Transmission)

	Data Monitoring	300 counts, it supports timing upload or changing upload.
	Alarm Push	60 counts,it supports clients push, message push,wechat public NO push.
	Historical Data	30 counts,it supports offline transferring,during offline it can support 5w data to save in the cloud.
	Edge Computing	It support script programming.
	Network Protocol	It supports over 100 industrial protocols.
	Managing& Maintenance	It supports remote firmware upgrading, and equipping file leading in/out.

Wiring Definition:

Power Terminals(Pin1 to Pin2 from left to right)

	Pin1	0V
	Pin2	DC24V

USB Slave

	MicroUSB	Used for program downloading and testing

DB9 Serial Port Terminals

	Pin1	Rx-(B)
	Pin2	RxD_PLC (COM1 RS232)
	Pin3	TxD_PLC (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD_PC/PLC (COM3 RS232)
	Pin8	TxD_PC/PLC (COM3 RS232)
	Pin9	Tx+

Installation panel is with 3 fixed holes(diameter 2.5mm)
Using equipping semi-circle triangle self-locked screw for fixing.

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,YutingAvenue,
             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
Fax: +86-755-27629895

Wuxi

Address: Room 1603, Taihu
                 Mingzhu Development
                 Building, No. 1890 Taihu
                 West Road, Binhu
                 District, Wuxi City
Telephone: +86-18505101982

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