

# **Flexem IIoT FBox Products**

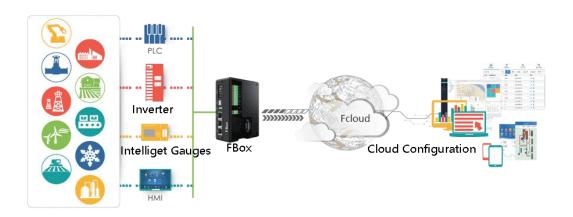
## **FBox-VPN**



- 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.



Website: www.flexem.com

Tel: 4008-033-022



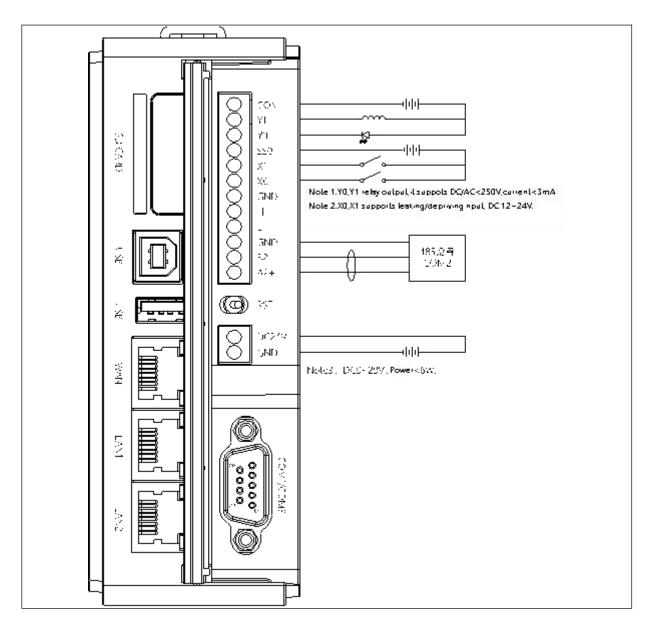
# **Specifications**

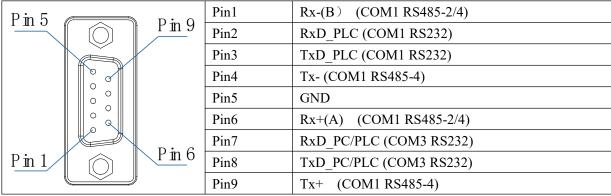
COM Ports   Output (Maximum5A)			
Hardware  USB Port  USB Device 2.0 port*1, USB Host 2.0 port*1  2-line optoelectronic isolated digital input, 2-line relations output (Maximum5A)  COM1: RS232/RS485/RS422  COM2: RS485  COM3: RS232  RTC  Built in  Power Consumption    DC24V,working range DC 9V~28V			
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  10 Port 2-line optoelectronic isolated digital input, 2-line relationation output (Maximum5A)  COM1: RS232/RS485/RS422  COM2: RS485  COM3: RS232  RTC Built in  Power Consumption <5 W  Input Power Dever Down Allowed <3 ms  Complied with EN61000-6-2:2005, EN61000-6-4:2007, Air:8KV  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  Mechanic Parameters  Mechanic Parameters  Power Data Monitoring 100 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 item	Hardware	CPU	600MHz ARM Cortex-A8
Hardware  Hardware    SD Card Port   USB Device 2.0 port*1, USB Host 2.0 port*1		Storage	128MB Flash + 128MB DDR3
Hardware    USB Port		Ethernet	3 lines of 10M/100M Ethernet Port
Hardware  IO Port  2-line optoelectronic isolated digital input, 2-line relacutput (Maximum5A)  COM1: RS232/RS485/RS422  COM Ports  COM2: RS485  COM3: RS232  RTC  Built in  Power Consumption  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  Environment Specifications  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 305g  Material  Engineering plastics  VPN transparent transmission  Available  Data Monitoring  2-line relacutput (Maximum5A)  COM1: RS232/RS485/RS422  COM2: RS485  COM3: RS232  RTC  Built in  Power Consumption  < 3mS  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHs, SWT push (20 items)  Available  300 points, it supports clients push, SMS push (20 items)		SD Card Port	Available
COPORT   2-line optoelectronic isolated digital input, 2-line relicutput (Maximum5A)		USB Port	USB Device 2.0 port*1, USB Host 2.0 port*1
output (Maximum5A)  COM1: RS232/RS485/RS422  COM2: RS485  COM3: RS232  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 Specifications   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    VPN transparent transmission   Available    Data Monitoring   100 points, it supports timing uploading or variab uploadings.		IO Port	2-line optoelectronic isolated digital input, 2-line relay
COM Ports  COM2: RS485  COM3: RS232  RTC  Built in  Power Consumption  Input Power  Power Protection  Power Protected from thunder strike and surging  Power Down Allowed  CE & RoHS  Complied with EN61000-6-2:2005, EN61000-6-4:2007,  RoHS, Surge Immunity: ± 1KV, EFT: ± 2KV,ESD:4KV,  Air:8KV  Working Temperature  Environment Specifications  Working Temperature  Environment Humidity  Anti-vibration  Cooling  Natural air cooling  Dimension  Natural air cooling  Dimension  130mm × 94mm × 48mm(without arial)  Weight  About 305g  Material  Engineering plastics  VPN transparent transmission  Data Monitoring  COM2: RS485  COM3: RS232  Built in  A 5W  A 5W  CoM2: RS485  COM3: RS232  Built in  A 5W  A 5W  CoW4-28V  About 90-6-2:2005, EN61000-6-4:2007, RoHS, Output Supports timing uploading or variab uploading.			output (Maximum5A)
COM3: RS232		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 305g  Material Engineering plastics  VPN transparent transmission Available  Data Monitoring 300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 itents)			COM2: RS485
Power Consumption <5W Input Power Doc24V,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  Environment Specifications  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  Mechanic Parameters  Mechanic Parameters  Dimension 130mm×94mm×48mm(without arial)  Weight About 305g Material Engineering plastics  VPN transparent transmission  Data Monitoring 300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 item			COM3: RS232
Input Power   DC24V,working range DC 9V~28V		RTC	Built in
Electrical Specifications  Power Protection Protected from thunder strike and surging Power Down Allowed  Specifications  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 Cooling Natural air cooling  Mechanic Parameters  Dimension 130mm×94mm×48mm(without arial) Weight About 305g Material Engineering plastics VPN transparent transmission Data Monitoring  Data Monitoring  Protected from thunder strike and surging  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV  Vorking Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation) Anti-vibration 25Hz (X/Y/Z direction 2G/30 minutes) Cooling Natural air cooling Dimension 130mm×94mm×48mm(without arial) Weight About 305g Available 300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 item		Power Consumption	< 5W
Specifications  Power Down Allowed  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  Environment Humidity  10~90%RH (non condensation)  Anti-vibration  Cooling  Natural air cooling  Dimension  Mechanic Parameters  Mechanic Parameters  VPN transparent transmission  Data Monitoring  Power Down Allowed <a href="#">&lt; 3mS</a> Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV  In 10~60°C  Storage Temperature  -20~70°C  Environment Humidity  10~90%RH (non condensation)  Natural air cooling  Dimension  130mm×94mm×48mm(without arial)  Weight  About 305g  Engineering plastics  VPN transparent transmission  Available  300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 item)		Input Power	DC24V,working range DC 9V~28V
CE & RoHS  COMPlied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV, Air:8KV  COO'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  Dimension  Natural air cooling  Dimension  130mm×94mm×48mm(without arial)  Weight  About 305g  Material  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Air: 8KV  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Air: 8KV  CE & RoHS  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Air: 8KV  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Air: 8KV  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Air: 8KV  Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS push (20 item push air: 8KV  Anti-vibration  10~25Hz (X/Y/Z direction 2G/30 minutes)  Cooling  Dimension  Attach air: 8KV  Anti-vibration  Anti-	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  Mechanic Parameters  Dimension  Weight About 305g Material Engineering plastics  VPN transparent transmission Available  Data Monitoring  Data Monitoring  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)  Natural air cooling Bimension 130mm×94mm×48mm(without arial) Weight About 305g Material Supports timing uploading or variable uploading.  100 points, it supports clients push. SMS push (20 itension)	Specifications	Power Down Allowed	<3mS
Air:8KV  Environment Specifications  Environment Humidity  Air:8KV  Storage Temperature  -20~70°C  Environment Humidity  Anti-vibration  Cooling  Mechanic Parameters  Dimension  Method About 305g  Material  Engineering plastics  VPN transparent transmission  Data Monitoring  Air:8KV  -10~60°C  Environment Humidity  10~90%RH (non condensation)  Natural air cooling  Natural air cooling  Bimension  130mm×94mm×48mm(without arial)  Weight  About 305g  Engineering plastics  VPN transparent transmission  Available  300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 iten	-	CE & RoHS	Complied with EN61000-6-2:2005, EN61000-6-4:2007,
Environment Specifications  Environment Specifications  Mechanic Parameters  Working Temperature -10~60°C Storage Temperature -20~70°C Environment Humidity 10~90%RH (non condensation)  10~25Hz (X/Y/Z direction 2G/30 minutes)  Natural air cooling Natural air cooling  Dimension 130mm×94mm×48mm(without arial)  Weight About 305g Material Engineering plastics  VPN transparent transmission Available  Data Monitoring  300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push, SMS push (20 item			RoHS, Surge Immunity: ±1KV, EFT: ±2KV,ESD:4KV,
Environment Specifications  Storage Temperature  Environment Humidity  Anti-vibration  Cooling  Mechanic Parameters  Dimension  Methanic Parameters  Dimension  Dimension  Methanic Parameters  Dimension  Dimension  About 305g  Engineering plastics  VPN transparent transmission  Available  Data Monitoring  Data Monitoring  Dimension  Available  100 points, it supports clients push, SMS push (20 item)			Air:8KV
Environment Specifications  Environment Humidity  Anti-vibration  Cooling  Mechanic Parameters  Dimension  Methanic Parameters  Dimension  Methanic Parameters  Dimension  About 305g  Engineering plastics  VPN transparent transmission  Data Monitoring  Dimension  Available  300 points, it supports timing uploading or variable uploading.  100 points, it supports clients push. SMS push (20 item		Working Temperature	-10~60℃
Specifications   Environment Humidity   10~90%RH (non condensation)		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 305g  Material Engineering plastics  VPN transparent transmission Available  Data Monitoring 300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push. SMS push (20 item		Environment Humidity	10~90%RH (non condensation)
Dimension   130mm×94mm×48mm(without arial)		Anti-vibration	10~25Hz (X/Y/Z direction 2G/30 minutes)
Mechanic Parameters  Weight About 305g  Engineering plastics  VPN transparent transmission Available  Data Monitoring  300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push. SMS push (20 item		Cooling	Natural air cooling
Parameters  Weight About 305g  Engineering plastics  VPN transparent transmission Available  Data Monitoring 300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push. SMS push (20 item		Dimension	130mm×94mm×48mm(without arial)
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Data Monitoring  300 points, it supports timing uploading or variab uploading.  100 points, it supports clients push. SMS push (20 item		Material	Engineering plastics
Data Monitoring uploading.  100 points, it supports clients push. SMS push (20 iten	Software Parameters	VPN transparent transmission	Available
uploading.  100 points, it supports clients push, SMS push (20 iten		Data Monitoring	300 points, it supports timing uploading or variable
100 points, it supports clients push, SMS push (20 iten			uploading.
		Alarming Push	100 points, it supports clients push, SMS push (20 items
tree everyday), wechat public NO push.			free everyday), wechat public NO push.
30 points, it supports offline transfer, each point ca		Historical Data	30 points, it supports offline transfer, each point can
Parameters Historical Data store 50000 items when offline, and the data can be ke			store 50000 items when offline, and the data can be kept
for 90 days			for 90 days
Edge Calculation It supports scripts programming.		Edge Calculation	It supports scripts programming.
Network Protocols		Network Protocols	It supports over 100 industrial devices protocols.
It supports firmware upgrading remotely, and equipping		Managing& Maintenance	It supports firmware upgrading remotely, and equipping
Managing& Maintenance   files lead in/out			

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## Wiring Definition



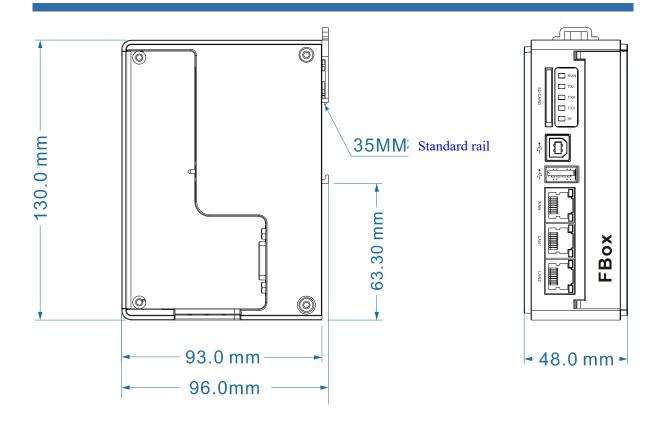


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### Size



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