

# **FL3-IOT Module**

# FL3-4G, FL3-2G



# **Products Overview**

- FL3 series PLC special IOT module.
- It supports FlexCloud platform.
- It supports remote monitoring, testing, and PLC program downloading.
- Ethernet, 2G,4G.

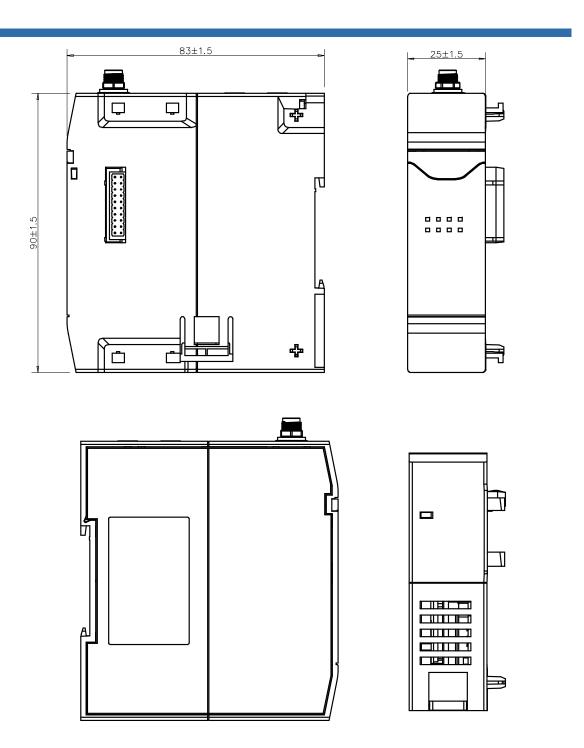


# **Products Specifications**

CPU   300MHz ARM9     Memory   128MB Flash+64MBBDDR3     IO Ports   None     Ethernet   1 line     USB ports   None     Communication Ports   Embedded expansion bus     Communication Ports   (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 4D (Mobile/Unicom) 2G (Mobile/Unicom) 4D (Mobile/Un	Model	FL3-4G	FL3-2G	
ID Ports Ethernet USB ports Communication Ports Ethernet Connection  Ethernet Connection  Ethernet Connection  Ethernet Connection  Ethernet Connection  Ethernet Connection  (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom/) Ethernet  VPN Transmission  General Transmission  Available  API Connection  Available  MQTT  Available  Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data counts  Historical data storage time  Rated Power  Rated Voltage  DC24V,working range: DC9V~28V  Power Protection  Protect from lightening and surging  Power Loss Allowed  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	CPU	300MHz ARM9		
Ethernet USB ports None  Communication Ports Embedded expansion bus  (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom) 2G (Mobile/Unicom) 4 Ethernet  VPN Transmission Unavailable  General Transmission Available  API Connection Available  MQTT Available  Edge Computing Unavailable  Real-time data monitoring counts  Alarming data counts  Historical data storage time  Rated Power SW  Rated Voltage DC24V,working range: DC9V~28V  Power Protection Protect from lightening and surging  Power Loss Allowed Small SM (Mobile/Unicom) 2G (Mobile/Uni	Memory	128MB Flash+64MBBDDR3		
USB ports Communication Ports Embedded expansion bus  (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 4G Ethernet  VPN Transmission General Transmission Available API Connection Available MQTT Available Edge Computing Real-time data monitoring counts Alarming data counts Historical data storage time Rated Power Rated Power Rated Voltage Power Protection Protect from lightening and surging Power Loss Allowed  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	IO Ports	None		
Communication Ports  Embedded expansion bus  (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 4 Ethernet  VPN Transmission  Unavailable  API Connection  Available  MQTT  Available  Real-time data monitoring counts  Alarming data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  (Mobile/Unicom) 2G	Ethernet	1 line		
Ethernet Connection  (Mobile/Unicom) 2G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 3G (Mobile/Unicom) 2G Ethernet  VPN Transmission  Unavailable  Available  API Connection  Available  MQTT  Available  Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  (Mobile/Unicom) 2G (Nobile/Unicom) 2D (Nobile/U	USB ports	None		
Ethernet Connection  (Mobile/Unicom/ Telecom)4G Ethernet  VPN Transmission  General Transmission  API Connection  MQTT  Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  (Mobile/Unicom)  Ethernet  Ethernet  (Mobile/Unicom)  Ethernet  (Mobile/Unicom)  Ethernet  (Mobile/Unicom)  Ethernet  (Mobile/Unicom)  2G  Ethernet  (Mobile/Unicom)  2d  Ethernet  (Mobile/Unicom)  2d  Ethernet  (Mobile/Unicom)  2d  Ethernet  Available  Unavailable  Unavailable  800  400  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Communication Ports	Embedded expansion bus		
VPN Transmission General Transmission API Connection MQTT Available Edge Computing Real-time data monitoring counts Alarming data counts Historical data storage time Rated Power Rated Voltage Power Loss Allowed  General Transmission Available Unavailable Unavailable 200 Condition Available Congression Congression Available Congression Congression Available Congression Congression Available Congression Congression Available Congression Congression Available Congression Congressi	Ethernet Connection	(Mobile/Unicom) 3G		
General Transmission  API Connection  Available  MQTT  Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  Available  Avai		Telecom)4G Ethernet		
API Connection  MQTT  Available  Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  Available  Available  Line Available	VPN Transmission	Unavailable		
MQTT Available  Edge Computing Unavailable  Real-time data monitoring counts  Alarming data counts  Historical data counts  Continuous Edge Computing Unavailable  200  Counts  Alarming data counts  60  Historical data counts  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	General Transmission			
Edge Computing  Real-time data monitoring counts  Alarming data counts  Historical data counts  Confirms to EN61000-6-2;2005,EN61000-6-4:2007				
Real-time data monitoring counts  Alarming data counts  Historical data counts  Control data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	•			
counts  Alarming data counts  Historical data counts  Confirms to EN61000-6-2;2005,EN61000-6-4:2007		Unavailable		
Alarming data counts  Historical data counts  20  Historical data storage time  Rated Power  Rated Voltage  DC24V,working range: DC9V~28V  Power Protection  Protect from lightening and surging  Power Loss Allowed  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Real-time data monitoring	200		
Historical data counts  Historical data storage time  Rated Power  Rated Voltage  Power Protection  Protect from lightening and surging  Power Loss Allowed  Confirms to EN61000-6-2;2005,EN61000-6-4:2007				
Historical data storage time 60 days  Rated Power <				
Rated Power < 5W  Rated Voltage DC24V,working range: DC9V~28V  Power Protection Protect from lightening and surging  Power Loss Allowed <3mS  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Historical data counts	20		
Rated Voltage  DC24V,working range: DC9V~28V  Power Protection  Protect from lightening and surging <a href="mailto:smaller">&lt;3mS</a> Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Historical data storage time	•		
Power Protection Protect from lightening and surging Power Loss Allowed <3mS  Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Rated Power	-		
Power Loss Allowed <3mS  Confirms to EN61000-6-2;2005,EN61000-6-4:2007				
Confirms to EN61000-6-2;2005,EN61000-6-4:2007	Power Protection			
	Power Loss Allowed	<:		
CE&RoHS standard, RoHS, lightening and surging±1KV, grou pulse±2KV,Static Contact: 4KV, Air discharge: 8KV.	CE&RoHS	standard, RoHS, lighteni	ng and surging±1KV, group	
Working Temperature -10~60°C	Working Temperature	-10~60°C		
Storage temperature -30~80°C	Storage temperature	-30~80°C		
Humidity 10~90%RH (Non-condensate)	Humidity	10~90%RH (Non-condensate)		
Anti-vibration 10~90%RH(The surface is without condensate)	Anti-vibration	10~90%RH(The surface is without condensate)		
Cooling Way Natural Cooling	Cooling Way	Natural Cooling		
Mechanic Structure Engineering PVC	Mechanic Structure	Engineering PVC		
Dimension 25mm×90mm×83mm	Dimension	25mm×90mm×83mm		

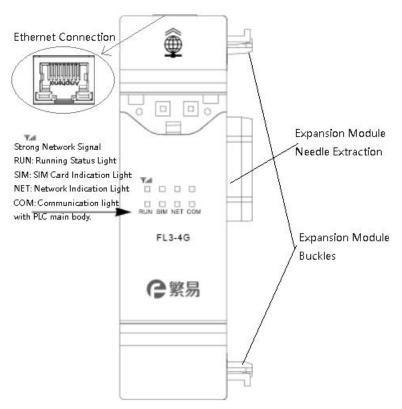


## Size





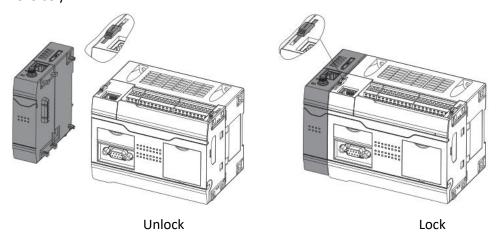
#### **Products Structure**



#### **FL3-IOT Extension Module Installation**

## Installation steps:

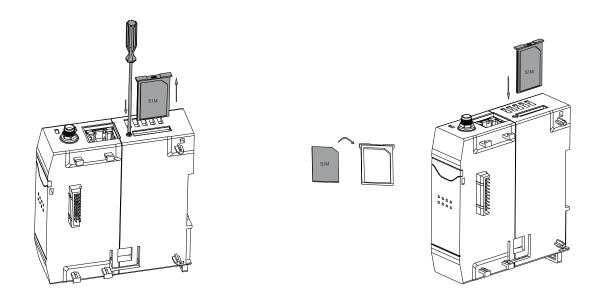
- 1. Please unlock the PLC light unit as in the photos.
- 2. Put IOT expanding module to the main PLC, lock the PLC extension module by push the buckles reversely.





## **SIM Card Installation**

- ${\bf 1.\ Press\ SIM\ card\ slot\ dot\ socket\ and\ take\ our\ SIM\ catto\ by\ using\ screws\ or\ other\ piercing\ tools.}$
- (1) Install SIM card onto the catto, and insert it to SIM card slot.





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