

Profinet Coupler Parameter

1 Product Information

1.1 Naming

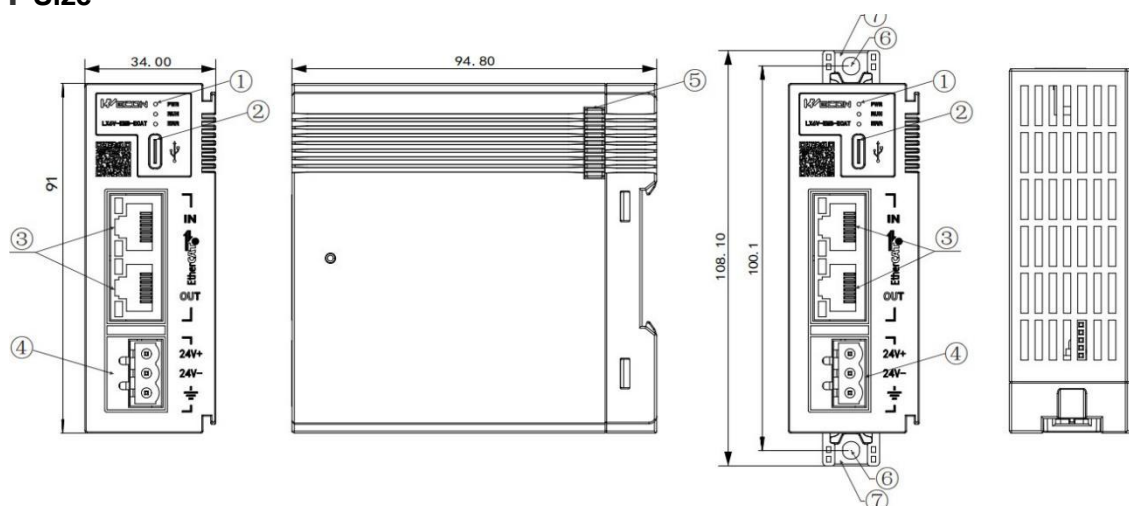
LX6V	EMB	PN
Series	Model type EMB: Support 16 extension modules EMC: Support 32 extension modules Note: Total power of modules≤48W	Protocol: Profinet

1.2 Module Supported Table

Coupler Model	Extension Module Supported	Coupler Version
LX6V-EMB-PN LX6V-EMC-PN	LX6V-0808EXY	V1.0.0
	LX6V-16EX	
	LX6V-16EY	
	LX6V-1616EXY	
	LX6V-32EX	
	LX6V-32EY	
	LX6V-4AD	
	LX6V-4DA	
	LX6V-4PT	
	LX6V-4TC	

2 Installation

2.1 Size



Number	Interface	Function
①	Signal indicator	RUN (White) · OFF: No power supply · ON: Power on LINK (White) · OFF: No module connected · Quick flash*: Coupler initialization · Flash*: PROFINET connecting · Signal flash*: Module configuration error · ON: PROFINET connected ERR (Red) · OFF: Normal status · Signal flash: Module configuration error · ON: No module connected
②	USB port (Type-C)	Firmware upgrade
③	PROFINET port	P1: PROFINET 1 P2: PROFINET 2
④	24V Power Input	Coupler power input interface
⑤	Extension Module interface	Connect LX6 series Extension Modules
⑥	Install hole	2 * $\Phi 4.5$
⑦	DIN rail clips	DIN rail clips

Note:

Quick flash: On 100ms , OFF 100ms

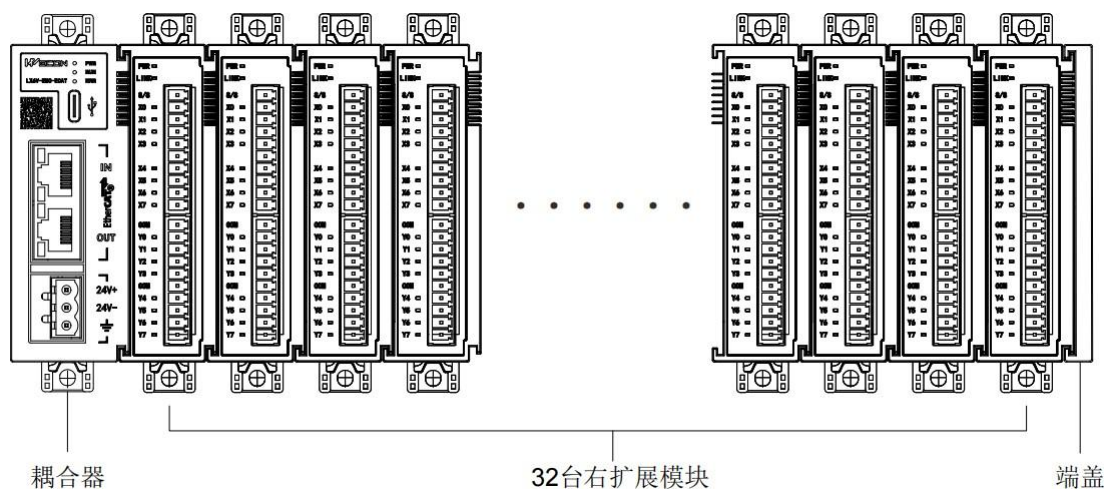
Flash: On 200ms, OFF 200ms

Signal flash: On 200ms, OFF 1s

USB port could be used for power supply for coupler, but cannot give power supply for extension modules, please connect 24V power supply for extension before connect USB cable.

2.2 Connection

Please install the end cover on the right side of the last expansion module and align it with the module interface slot, as shown in the figure below:



3 Specifications

3.1 Parameter

Item	Specifications	
Model	LX6V-EMB-PN	LX6V-EMC-PN
Module supported	16	32
Power supply	DC 24V±10%, 100mA (Without expansion modules)	
Communication interface	RJ45x2, 10Mbps (Standard Ethernet)、 100Mbps (Profinet)	
Communication method	Full Duplex, RT mode	
PDO data	Up to 1440 byte	
PDO data	Up to 1440 byte	
Minimum communication cycle	1ms	
I&M data	I&M0 to I&M3	
Profinet version	V2.43	
Profinet switch	Support	
Standard Ethernet protocol	TCP/IP, SNMP, LLDP	
Alarm and debugging	Support update error information to PLC	
Topology	Support linear, star, tree, etc.	
Transmission distance	The distance between two nodes should be ≤100m	
Transmission medium	Category 5e and above	
Priority start	Support	
MRP	Support	
Port Disabling	Support	
Coupler factory reset	Support	
Module factory reset	No support	
Coupler firmware upgrade	Support	

3.2 Working Environment

Item	Specifications
Usage Environment	No corrosive, flammable gas, no large amount of conductive dust (dust)
Environment temperature	Working temperature: -20°C to 55°C Storage temperature: -40°C to 70°C
Environment humidity	Working humidity: 10% to 90%RH (No condensation) Storage humidity: ≤ 90%RH (No condensation)
Altitude	0 to 2000m
Installation	Installed on DIN46277 (35mm width) rail by snap-on
Size	91*34*94.8mm