



**ELECTRIC XBL-EIMT
Programmable Logic
Controller**



LS ELECTRIC XBL-EIMT Programmable Logic Controller User Guide

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LS ELECTRIC XBL-EIMT Programmable Logic Controller



Product Information

Specifications:

- C/N: 10310001140
- Product: Programmable Logic Controller XGB RAPIEnet XBL-EIMT/EIMH/EIMF
- Dimensions: 100mm

Product Usage Instructions

Installation:

1. Ensure the power source is disconnected before installation.
2. Mount the PLC securely in a suitable location using appropriate hardware.
3. Connect the necessary cables and peripherals according to the provided diagram.

Setup and Configuration:

1. Power on the PLC and access the configuration settings.
2. Set up input and output parameters based on your specific application requirements.
3. Save the configuration settings before proceeding.

Operation:

1. Start the PLC by following the manufacturer's instructions.
2. Monitor the system for proper functionality and check for any error indicators.
3. Interact with the PLC using the provided interface for control and monitoring purposes.

FAQ

- **Q: What should I do if the PLC displays an error code?**

- A: Refer to the user manual for a list of error codes and their corresponding solutions. If the issue persists, contact customer support for further assistance.

- **Q: Can I expand the PLC's input/output capacity?**

- A: Yes, you can typically expand the PLC's I/O capacity by adding expansion modules or racks. Refer to the documentation for compatible expansion options.

This installation guide provides simple function information or PLC control. Please read carefully this data sheet and manuals before using products. Especially read precautions then handle the products properly.

Safety Precautions

Meaning of warning and caution label

WARNING

- WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury

CAUTION

- CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices

WARNING

1. Do not contact the terminals while the power is applied.
2. Be sure there are no foreign metallic matters.
3. Do not manipulate the battery(charge, disassemble, hitting, short, soldering).

CAUTION

1. Be sure to check the rated voltage and terminal arrangement before wiring
2. When wiring, tighten the screw of the terminal block with the specified torque range
3. Do not install flammable things on the surroundings
4. Do not use the PLC in an environment of direct vibration
5. Except expert service staff, Do not disassemble or fix or modify the product

6. Use the PLC in an environment that meets the general specifications contained in this datasheet.
7. Be sure that external load does not exceed the rating of output module.
8. When disposing of PLC and battery, treat it as industrial waste.
9. I/O signal or communication line shall be wired at least 100mm away from a high-voltage cable or power line.

Operating Environment

To install, observe the below conditions

No	Item	Specification			Standard	
1	Ambient temp.	0 ~ 55℃			—	
2	Storage temp.	-25 ~ 70℃			—	
3	Ambient humidity	5 ~ 95%RH, non-condensing			—	
4	Storage humidity	5 ~ 95%RH, non-condensing			—	
5	Vibration Resistance	Occasional vibration			—	IEC 61131-2
		Frequency	Acceleration	Amplitude	Number	
		5≤f<8.4	—	3.5mm	10 times in each direction for X, Y, Z	
		8.4≤f≤150	9.8 (1g)	—		
		Continuous vibration				
		Frequency	Acceleration	Amplitude		
		5≤f<8.4	—	1.75mm		
		8.4≤f≤150	4.9 (0.5g)	—		

Applicable Support Software

For system configuration, the following version is necessary

1. XBC Series : SU(V1.5 or above), H(V2.4 or above), U(V1.1 or above)
2. XEC Series : SU(V1.4 or above), H(V1.8 or above), U(V1.1 or above)
3. XBM Series : S(V3.5 or above), H(V1.0 or above)
4. XG5000 Software : V4.00 or above

Accessories and Cable Specifications

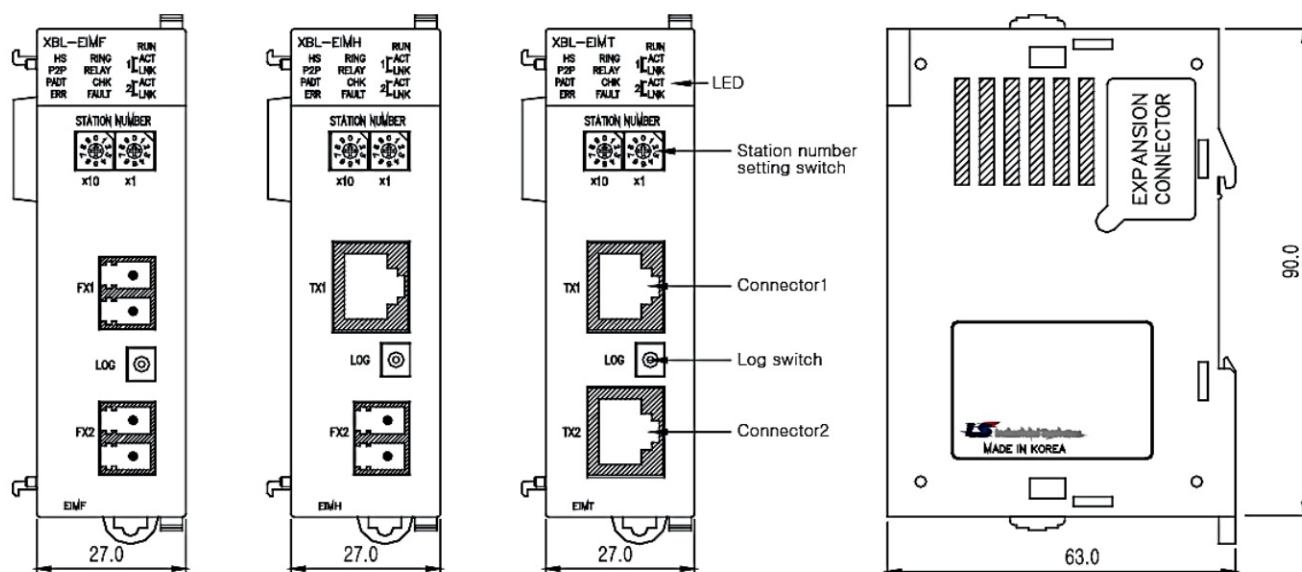
Cable is recommended for CAT5E over S-FTP cable. Cable types vary Depending on your system configuration and environment. Please consult a professional supplier before installation.

Electrical Characteristic

Item	Unit	Value	Condition
Conductor resistance	Ω/km	93.5 Or less	25°C
Voltage endurance(DC)	V/1min	500V	In air
Insulation resistance(Min)	M Ω -km	2,500	25°C
Characteristic impedance	Ω	100 \pm 15	10MHz
Attenuation	Db/100m Or less	6.5	10MHz
		8.2	16MHz
		9.3	20MHz
Near-end crosstalk Attenuation	Db/100m Or less	47	10MHz
		44	16MHz
		42	20MHz

Parts name and Dimension (mm)

This is front part of the product. Refer to each name when operating the system. For more information, refer to user's manual.



LED details

Silk	LED Status		
	On	Blink	Off
RUN	Power on and CPU normal operation	—	Power off and CPU abnormal operation
HS	When High Speed Link service is enable	—	When High Speed Link service is disable
P2P	When P2P service is enable	—	When P2P service is disable
PADT	When XG5000 remote connection is enable	—	When XG5000 remote connection is disable
RING	CH1, CH2 Ring network establish	CH1, CH2 Change from ring to line network	Line network establish
RELAY	When frames are relayed	—	—
LINK	When network link establish	—	—
ACT	—	When communication is normal	—
CHK	There are modules whose station no. is same.	—	—
FAULT	There are modules whose station no. is same with no. of self-station.	—	—
ERR	When hardware has error	—	—

Installing / Removing Modules

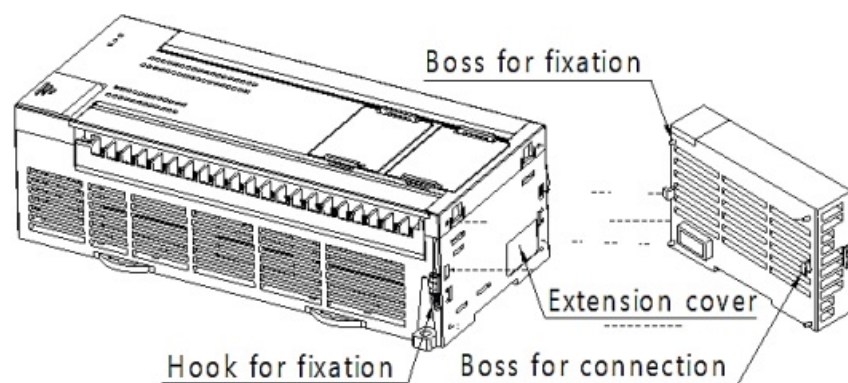
Here describes the method to attach each module to the base or remove it.

Installing module

1. Eliminate the Extension Cover at the product.
2. Push the product and connect it in agreement with Hook For Fixation of four edges and Hook For Connection.
3. After connection, push down the Hook For Fixation and fix it completely.

Removing module

1. Push up the Hook For Disconnection, and then detach the product with two hands.



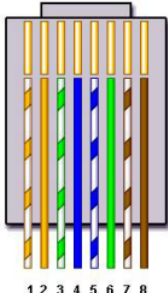
(Do not detach the product by force)

Wiring

Wiring for Communication

1. 10/100BASE-TX's max. extended length between nodes is 100m.
2. This switch module provides Auto Cross Over function so the user can use both cross and direct cable.

Pin No.	Sign	Cable wiring	
		Straight cable	Cross cable
1	TD+	1 ---- 1	1 ---- 3
2	TD-	2 ---- 2	2 ---- 6
3	RD+	3 ---- 3	3 ---- 1
6	RD-	6 ---- 6	6 ---- 2
4,5,7,8	Not used	-	-



1. White orange
2. Orange
3. White green
4. Blue
5. White blue
6. Green
7. White brown
8. Brown

Warranty

- The warranty period is 36 months from the date of manufacture.
- The initial diagnosis of faults should be conducted by the user. However, upon request, LS ELECTRIC or its representative(s) can undertake this task for a fee. If the cause of the fault is found to be the responsibility of LS ELECTRIC, this service will be free of charge.
- Exclusions from warranty
 1. Replacement of consumable and life-limited parts (e.g. relays, fuses, capacitors, batteries, LCDs, etc.)
 2. Failures or damages caused by improper conditions or handling outside those specified in the user manual
 3. Failures caused by external factors unrelated to the product
 4. Failures caused by modifications without LS ELECTRIC's consent
 5. Use of the product in unintended ways
 6. Failures that cannot be predicted/solved by current scientific technology at the time of manufacture
 7. Failures due to external factors such as fire, abnormal voltage, or natural disasters

8. Other cases for which LS ELECTRIC is not responsible

- For detailed warranty information, please refer to the user's manual.
- The content of the installation guide is subject to change without notice for product performance improvement.

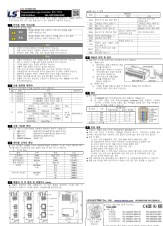
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- LS ELECTRIC Middle East FZE (Dubai, U.A.E.) Tel: 971-4-886-5360
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QR Code



Documents / Resources

	<p>LS ELECTRIC XBL-EIMT Programmable Logic Controller [pdf] User Guide XBL-EIMT, EIMH, EIMF, XBL-EIMT Programmable Logic Controller, XBL-EIMT, Programmable Logic Controller, Logic Controller, Controller</p>
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References

- [Electric | The Largest Consumer Energy & Renewables Platform](#)
- [LS ELECTRIC Co., Ltd.](#)
- [User Manual](#)

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