



# **SELECTRIC** XGB Communication Modules

### **XBL-EMTA Communication Module**

XBL-EMTA is an Ethernet expansion module that supports Modbus TCP Client/Server and XGT protocol.

Part Nu	mber	Price	Classification	Description	Drawing
<u>XBL-EI</u>	<u>114</u>	\$199.00	Communication Module	LS Electric XGB communication module, Modbus TCP and LS XGT protocol, 1 port, (1) Ethernet 10/100Base-T (RJ45) port(s). For use with LS Electric XGB series PLCs.	<u>PDF</u>

General	Specifications	XBL-EMTA	
	Speed	Auto/10M/100Mbps	
	Туре	Base band	
	Flow Control	HALF/FULL	
	Modulation Type	NRZI	
	Transformer CT	1:1	
	Maximum Distance between Nodes	100m	
Transmission Standard	Minimum Distance between Nodes	1m or more <sup>1</sup>	
	Max. Number of Nodes	Hub connection	
	Max Protocol Size	Data 512 bytes	
	Communication Zone Access Method	CSMA/CD	
	Frame Error- Checking Method	CRC32	
Diagnosis Fun	ction	HS link station no., IP/Subnet mask IP/Gateway IP/DNS Server IP, Main service/HS Link/P2P enable, Setting media, Hardware/software version	
Number of Connections	XGT server or Modbus	4 channels	
(Client/	Remote 1	1 channel	
Server)	Remote 2	1 channel	
Maximum Unit	s per CPU	2	
Maximum	Dedicated	4 channels, 512 bytes	
Setting Data	HS Link	64 blocks, 200 words per block	
Size Per Block	P2P	3 channels, 32 blocks, 512 bytes	
DIUCK	Remote	Max 1 channel server, 1 channel client	
Current Consu	Imption	5VDC: 300mA	
Weight		71g	



1 - When using a cable of less than 1m, the SNR (Signal to Noise Ratio) decreases due to the influence of refleced waves, which may cause Link Down or packet loss.



## **ELECTRIC** XGB Communication Modules

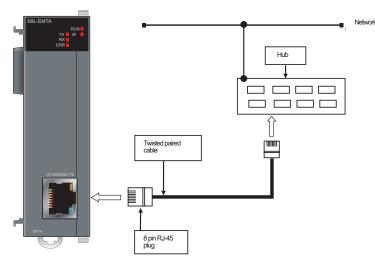
## **XBL-EMTA Communication Module Interface**

#### **Device LED Functionality**

Faceplate View	LED	Status	Meaning
	RUN	On	Normal operating
		Off	Stop operating
XBL-EMTA	I/F	Flicker	Interface with CPU
RUN TX I/F		Off	Stop interface with CPU
RX ERR	тх	Flicker	Transmitting data
		Off	Not transmitting data
	RX	Flicker	Receiving data
10/100BASE-TX		Off	No receiving data
	ERR	On	Hardware error
		Flicker	Software error
	LINK LED (Yellow)	Flicker	Receiving packets
		Off	Not receiving packets
	Speed LED (Green)	On	100Mbps operating speed
		Off	10Mbps operating speed

#### Wiring and Installation

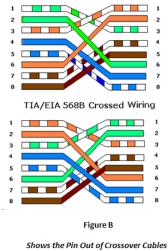
#### **Network Connection**



#### RJ45 Cable Wiring



Shows the Pin Out of Straight through Cables



TIA/EIA 568A Crossed Wiring