

# LSELECTRIC XGB Communication Modules

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

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

Part Number	Price	Classification	Description	Drawing
XBL-EMTA	\$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	
Transmission Standard	Speed	Auto/10M/100Mbps	
	Туре	Base band	
	Flow Control	HALF/FULL	
	Modulation Type	NRZI	
	Transformer CT	1:1	
	Maximum Distance between Nodes	100m	
	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 Function		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 (Client/ Server)	XGT server or Modbus	4 channels	
	Remote 1	1 channel	
	Remote 2	1 channel	
Maximum Unit	ts per CPU	2	
Maximum Setting Data Size Per Block	Dedicated	4 channels, 512 bytes	
	HS Link	64 blocks, 200 words per block	
	P2P	3 channels, 32 blocks, 512 bytes	
	Remote	Max 1 channel server, 1 channel client	
Current Consu	ımption	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.

www.automationdirect.com



# **ELECTRIC** XGB Communication Modules

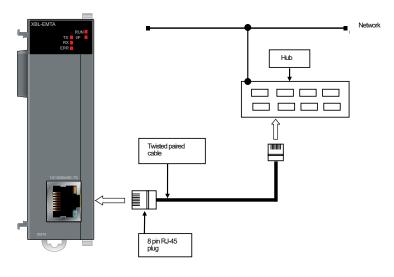
## **XBL-EMTA Communication Module Interface**

#### **Device LED Functionality**

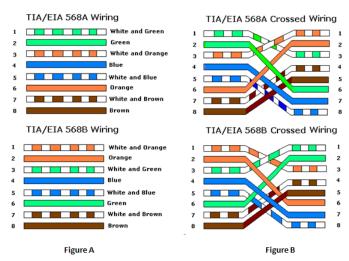
Faceplate View	LED	Status	Meaning
	RUN	On	Normal operating
	KUN	Off	Stop operating
XBL-EMTA	I/F	Flicker	Interface with CPU
RUN TX I/F		Off	Stop interface with CPU
RX ■ ERR ■	TX	Flicker	Transmitting data
ENT		Off	Not transmitting data
	RX	Flicker	Receiving data
10/100BASE-TX		Off	No receiving data
	ERR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

Shows the Pin Out of Crossover Cables