

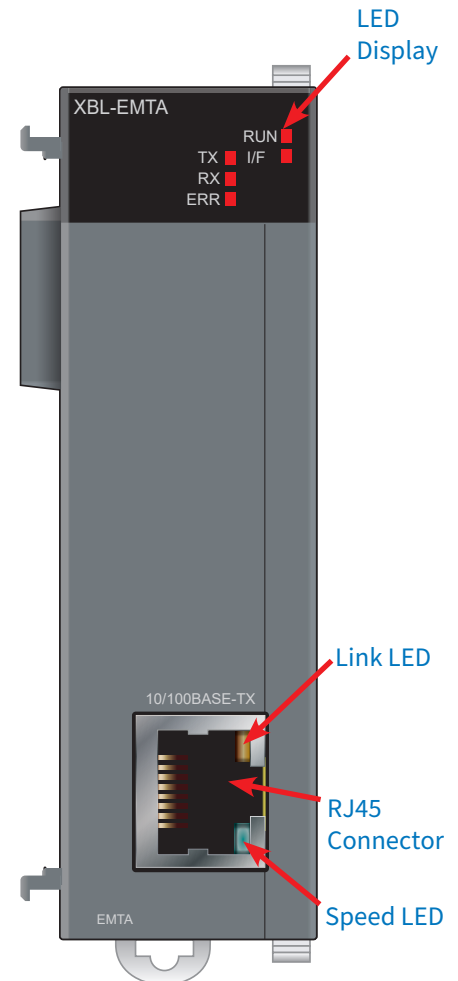
## XBL-EMTA Communication Module

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

Part Number	Price	Classification	Description	Drawing
<a href="#">XBL-EMTA</a>	\$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.	<a href="#">PDF</a>

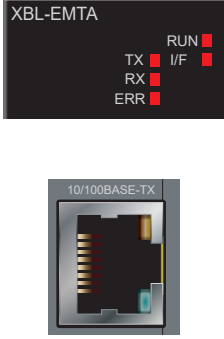
General Specifications		XBL-EMTA
Transmission Standard	Speed	Auto/10M/100Mbps
	Type	Base band
	Flow Control	HALF/FULL
	Modulation Type	NRZI
	Transformer CT	1:1
	Maximum Distance between Nodes	100m
	Minimum Distance between Nodes	1m or more <sup>1</sup>
	Max. Number of Nodes	Hub connection
	Max Protocol 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 Units 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 Consumption		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 reflected waves, which may cause Link Down or packet loss.



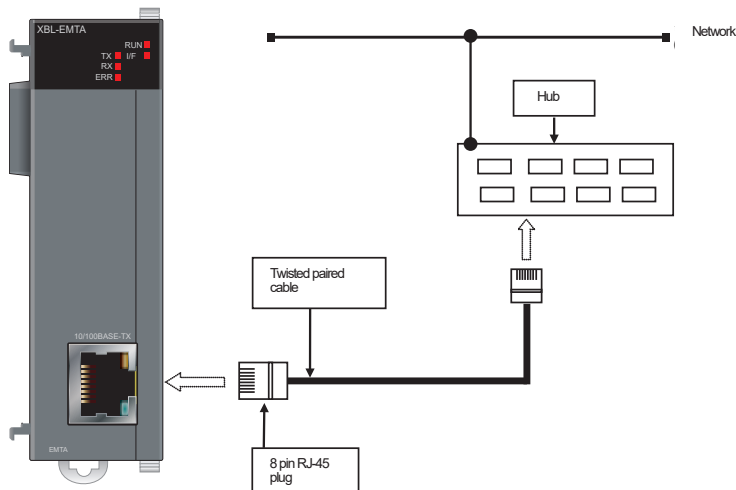
## XBL-EMTA Communication Module Interface

### Device LED Functionality

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

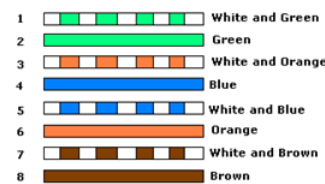
## Wiring and Installation

### Network Connection



### RJ45 Cable Wiring

#### TIA/EIA 568A Wiring



#### TIA/EIA 568B Wiring

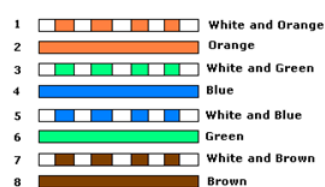


Figure A

Shows the Pin Out of Straight through Cables

#### TIA/EIA 568A Crossed Wiring



#### TIA/EIA 568B Crossed Wiring

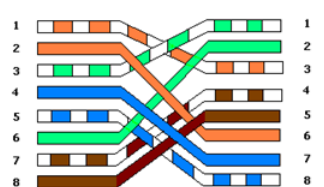


Figure B

Shows the Pin Out of Crossover Cables