

# General Specification

## FA-M3 F3LE12-1T Ethernet Interface Module

FA-M3

GS 34M06H24-08E

### General

The Ethernet\* Interface module is to be installed in an I/O slot of the FA-M3 Range-free Multi-controller. It can be connected to an IEEE802.3-compliant network (100BASE-TX or 10BASE-T). When connected to a network, it can exchange data with any node (PC, workstation, etc.) on the network using the TCP/IP or UDP/IP protocol.

\*: "Ethernet" is a registered trademark of XEROX Corporation.

### Features

- Messaging (UDP/IP)  
Enables exchange of messages with other nodes using UDP/IP. Up to 1024 bytes of data can be transmitted per socket.
- Remote programming  
Enables a user to create and maintain programs from a computer connected to the network using FA-M3 Programming Tool WideField3.
- Higher-level link service (accessing from another node)  
Enables a user to monitor the devices of a sequence CPU from another node connected to the same network, as well as upload, download, start, or stop a program remotely, without the need to write a ladder program for this purpose.
- 100 Mbps support  
The module supports 100BASE-TX for fast transmission over a network, and automatically switches between 10 Mbps and 100 Mbps through auto-negotiation.

### Specifications

Item	Specifications	
	100BASE-TX	10BASE-T
Transmission	Access control	
	CSMA/CD	
	Transmission speed	100 Mbps
	Transmission method	Baseband
	Maximum segment length	100 m <sup>1</sup>
Largest connection configuration	2 cascade segments max.	4 cascade segments max.
	Protocol	
TCP/IP, UDP/IP, ICMP, ARP		
Data type	Binary or ASCII (for higher-level link service only)	
Write protection	Enabled or disabled (for higher-level link service only)	
Compatible CPU modules. Number of installed modules.	Total number of modules with similar functions (personal computer link module, FL-net interface module, etc.): 2 max. for F3SP08-0P or F3SP21-0N; 6 max. for F3SP22-0S, F3SP28-□S, F3SP38-6S, F3SP53-4S, F3SP58-6S, F3SP59-7S, F3SP66-4S, F3SP67-6S, F3SP71-4S, F3SP76-7S, F3BP20-0N, or F3BP30-0N	
Current consumption	330 mA max.	
External dimensions	28.9 (W) × 100 (H) × 83.2 (D) mm <sup>2</sup>	
Weight	100 g	
Environmental Specifications	Surrounding air temperature range	Operating: 0 to 55°C
		Storage: -20 to 75°C
	Surrounding humidity range	Operating: 10 to 90%RH (non-condensing)
		Storage: 10 to 90%RH (non-condensing)
Surrounding atmosphere	Must be free of corrosive gases, flammable gases or heavy dust.	

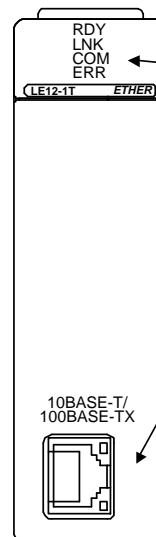
\*1: Maximum distance between the module and a hub.

\*2: Excluding protrusions (see External Dimensions for details).



### Components and Functions

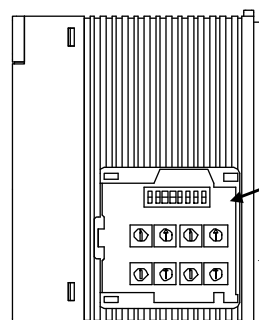
#### Front view



Indicators  
RDY: Lit when the module is operating normally.  
LNK: Lit when connected to a network.  
COM: Flashes when a carrier is detected on a network.  
ERR: Lit when the module cannot be operated.

10BASE-T/100BASE-TX connector  
\* The connector is fitted with an LED lens but the LED will not light up.

#### Right side view



Operation condition switch

IP address switches

Note: This is a right side view with the cover removed.

## ■ Operating Environment

This module is compatible with all sequence CPU modules types.

## ■ Model and Suffix Codes

Model	Suffix Code	Style Code	Option Code	Description
F3LE12	-1T	.....	.....	10/100 Mbps 10BASE-T/100BASE-TX with (UDP/IP) messaging function

## ■ External Dimensions

