I-9172
2-port FRnet Module

Features

- Innovative token-stream communication technology
- High-speed Distributed I/O Control
- Real-time I/O Synchronization Capabilities
- Fixed Cyclic Scan Time for Deterministic Control
- Easily Memory-mapping I/O Programming
- No Software Overhead for Data Transfers
- Easy to Wiring (2-wire Cabling)

Introduction

The I-9172 is an isolated FRnet controller for WP-9000-CE7 and XP-9000-WES7 Programmable Automation Controller (PAC) to implement an FRnet network. The I-9172 has two FRnet ports, each FRnet port can control a maximum of 16 communication nodes, numbered from 0 to 15. Each single node of the remote I/O module can control a maximum of 16 DI/DO channels. In other words, each FRnet port can control a maximum of 128 DI and 128 DO channels.

System Specifications

Model	I-9172
LED Indicators	
System LED Indictor	1 LED as Power Indicator
I/O LED Indicator	2 LEDs as Communication Status Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3000 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
	±8 kV Air for Random Point
Power	
Power Consumption	0.12 A @ 5 V = 6 W, ±5%
Mechanical	
I/O Connector	Removable 5-Pin Terminal Block
Dimensions (L × W × H)	144 mm × 31 mm × 133 mm
Environment	
OperatingTemperature	-25 ~ +75°C
Storage Temperature	-40 ~ +85°C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

Model	I-9172
RS-422/485 Interface	
Ports	2
2-wire Cabling	Belden 8941 (2P twisted-pair cable), When different cables are used, the transmission distance may change
Transfer Distance	Max. 400m for speed 250Kbps (Default); Max. 100m for speed 1Mbps
Transfer Speed	2.88ms for speed 250Kbps (Default)

Dimensions (Units: mm)

Left View

Front View

Pin Assignments

Port0-A
Port0-B
Port1-A
Port1-B
F.G.
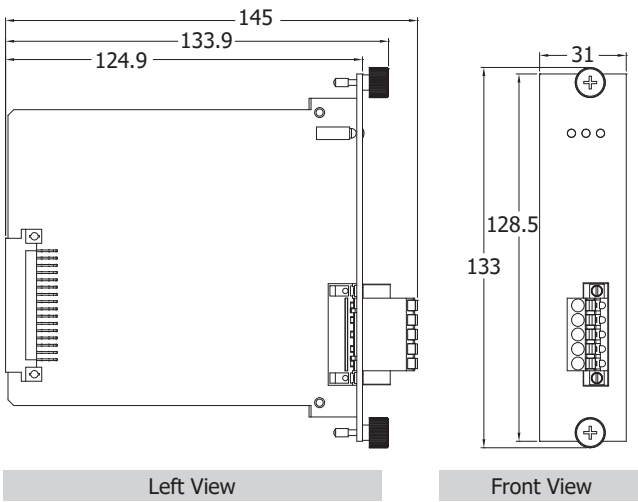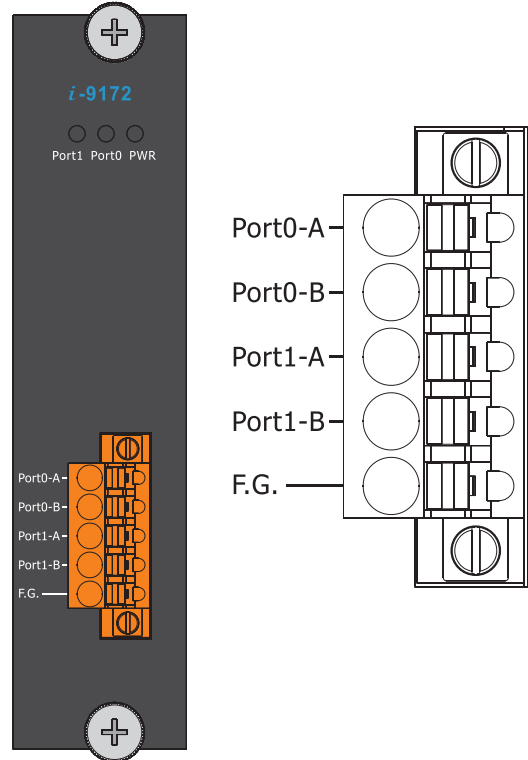
Ordering Information

I-9172 CR	2-port FRnet Module (RoHS)

Accessories

FR-2053/2053T	16-channel Isolated Sink Digital Input Module
FR-2057/2057T	16-channel Isolated Sink Digital Output Module
FR-2053TA	16-channel Isolated Sink/Source Digital Input Module
FR-2057TA	16-channel Isolated Source Digital Output Module
FR-2057TW	16-channel Sink Type Isolated High Current Output Module
FR-2054T	8-Channel Digital Output and 8-Channel Digital Input Module