

I-9174

4-port FRnet module

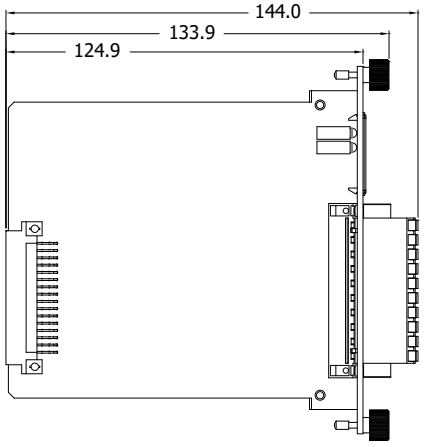
Features

- 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)

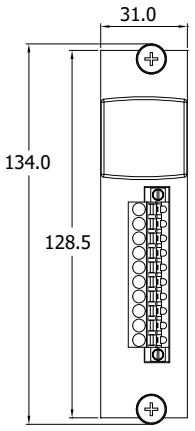
Introduction

The I-9174 is an isolated FRnet controller for WP-9000-CE7 and XP-9000-WES7 Programmable Automation Controller (PAC) to implement an FRnet network. The I-9174 has four 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.

Dimensions (Units: mm)



Left View

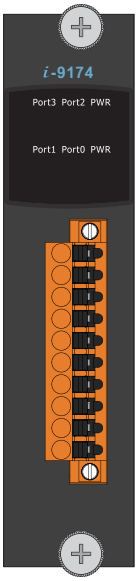


Front View

System Specifications

Interface	
FRnet Ports	4
Transfer Distance	Max. 400 m for speed 250 Kbps (Default); Max. 100 m for speed 1 Mbps
Cyclic Scan Time	2.88 ms for speed 250 Kbps (Default) 0.72 ms for speed 1 Mbps
Wire Cable	Belden 8941 (2P twisted-pair cable), When different cables are used, the transmission distance may change
Connection	Removable 10-Pin Terminal Block
LED Indicators/Display	
Power	2 LEDs
FRnet Communication	4 LEDs
Isolation	
Intra-module Isolation, Field-to-Logic	3000 Vrms
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 = 0.6 W, ±5% For Hardware version 1.2
Mechanical	
Dimensions (W × L × H)	31 mm x 144 mm x 134 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

Pin Assignments



Pin Assignment	Terminal No.
Port0-A	
Port0-B	
Port1-A	
Port1-B	
Port2-A	
Port2-B	
Port3-A	
Port3-B	
NC	
F.G.	

Ordering Information

I-9174 CR	4-port FRnet Module (RoHS)

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