



I-8172W
2-port FRnet module

Features

- Reduced Wiring two-wire cabling
- Innovative token-stream communication technology
- Real-time I/O synchronization capabilities
- Fixed cyclic scan time for deterministic control
- High speed distributed I/O control capabilities
- Memory-mapping I/O programming
- Easily programmable
- No software overhead for protocol processing



Introduction

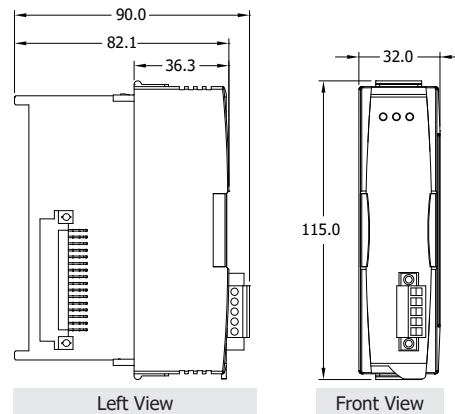
The ICP DAS XP-8000, WP-8000, LP-8000, I-8000 and iP-8000 series modules are all Programmable Automation Controller (PAC) that use an I-8172W FRnet communication module to implement an FRnet network.

The I-8172W is an isolated FRnet communication controllers. The I-8172W 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.

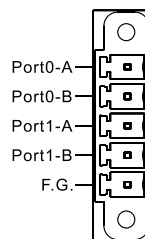
System Specifications

Interface	
FRnet Ports	2
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 5-Pin Terminal Block
LED Indicators/Display	
Power	1 LED
FRnet Communication	2 LEDs
Isolation	
Intra-module Isolation, Field-to-Logic	3000 Vrms
EMS Protection	
ESD (IEC 61000-4-2)	-
Power	
Power Consumption	0.12A @ 5V=6W, ±5% For Hardware version 1.2
Mechanical	
Dimensions (W × L × H)	32 mm x 90 mm x 115 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	5 ~ 95% RH, Non-condensing

Dimensions (Units: mm)



Pin Assignments



Ordering Information

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