



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	
CE LA LE	

■ Introduction

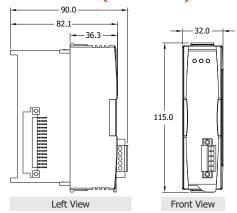
The ICP DAS XP-8000, WP-8000, LP-8000, I-8000 and iP-8000 series modules are all Programmable Automation Controller (PAC) that use an I-8172W FRnet communication module to implement an FRnet network.

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

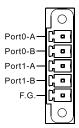
■ System Specifications

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	1500 VAC	
EMS Protection		
ESD (IEC 61000-4-2)	-	
Power		
Power Consumption	0.12A @ 5V=6W, ±5% For Hardware version 1.2	
Mechanical		
Dimensions (W \times L \times 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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