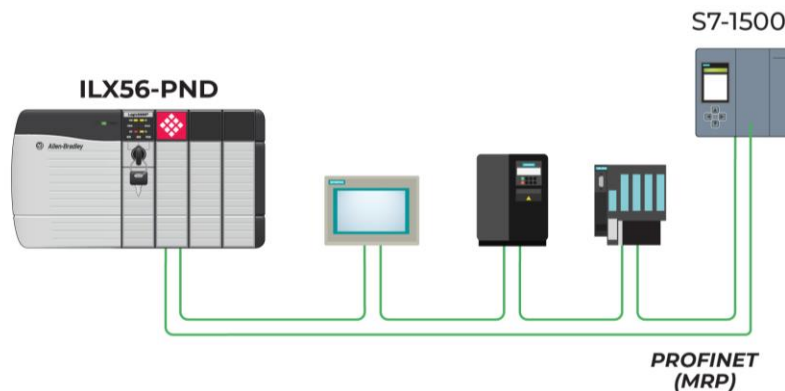# DATASHEET

ILX56-PND
PROFINET Device Module
for ControlLogix®

The ILX56-PND PROFINET Device Module allows Rockwell Automation® ControlLogix® processors to communicate on a PROFINET RT protocol network supporting up to 1440 bytes of cyclic I/O data.

Combined with the use of multiple I/O connections back to the ControlLogix processor, this module provides data update rates that will meet even the most demanding of PROFINET RT applications.

In addition, with the use of the PLX50 Configuration Utility you have advanced features such as custom-built Add-On Routines and User Defined Data Types (UDTs) to minimize the amount of time and effort in getting a ControlLogix PAC operating on a PROFINET RT network.

The ILX56-PND also supports media redundancy (using the Media Redundancy Protocol – MRP) as well as PROFINET Controller redundancy (using S2 Controller Redundancy).

Features

❖ Remote diagnostics via configuration utility

❖ PROFINET RT Device supporting up to 1440 bytes of Input/Output Data

❖ Supports Acyclic parameter data exchange

❖ Add-On Profile and custom Add-On Routines and User Defined Data Types provided to allow for seamless integration to Studio 5000

❖ Support for S2 Redundancy applications

PROFINET RT Device Specifications

Specification	Description
PROFINET Device Support	PROFINET RT Device
Input/Output	Maximum 1440 Bytes (input/output) per device
Minimum Device Interval	2 ms
Conformance	Certified to PROFINET Conformance Level B
Redundancy	Higher availability through Media Redundancy Protocol (MRP) ring redundancy. PROFINET S2 Device Redundancy

Hardware Specification

Specification	Description
PROFINET Interface	100/1000 MB with MRP (Client)
Power Supply	600 mA @ 5Vdc 2 mA @ 24 Vdc
Dimensions	Standard 1756 Single-slot module
Burst	EN 61000-4-4, 2 kV, 5 kHz
Surge	EN 61000-4-5, 2 kV Common mode, 1 kV differential mode
ESD	EN 61000-4-2, 4 kV contact, 8 kV air, 4 kV indirect
Radiated/Conducted Immunity	EN 61000-4-3, 10 V/m, 30 to 1000 MHz, 80% AM, 1 kHz sine wave EN 61000-4-6, 10 V, 0,15 to 80 MHz
Radiated/Conducted Emission	EN 55011 Class A
Vibration/Shock (operating)	IEC 600068-2-6, 10-500 Hz, ± 0,75 mm, ± 2 g, 1 Octave/min IEC 600068-2-27, 30 g, 11 ms
Operating Temperature	0°C to 60°C (32°F to 140°F) ILX56-PND-CC -25°C to 70°C (-13°F to 158°F)
Relative Humidity	5 to 95% (non-condensing)
Minimum Software Rev	Studio 5000 v30 and above

Agency Approvals & Certifications

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