



PFN-2055 **PROFINET I/O Module**

■ Features

- Protocol: PROFINET IO Device
- PROFINET Conformance Class B and RT Class 1
- Cyclic Time: 1ms (min)
- Generic GSDML File Provided (Version 2.25)
- Do load voltage: +3.5 ~ +50 VDC
- Do load current: 700 mA/Channel (max.)
- Provide short-circuit protection on DO channels
- DI ON/OFF voltage level: +10 ~ +50 VDC / +4V max.
- 4 kV Contact ESD protection for any terminal
- Wide range of power input (+10 \sim +30 VDC) and operating temperature (-25 ~ +75°C)







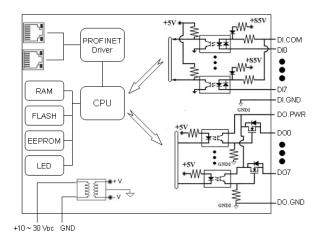




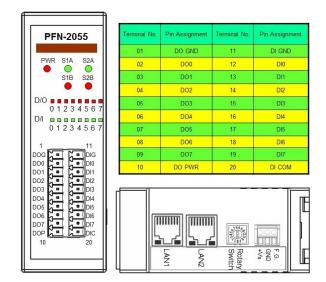
■ Introduction

The PFN-2055 is one of the PROFINET IO series products produced by ICP DAS. It provides the PROFINET IO communication protocol with any PROFINET IO controllers. It has 8-channel isolated digital inputs and 8-channel isolated digital outputs, and it provides ±4kV ESD protection contacting for all terminals. You can access and configure it by using the GSDML file in any PROFINET Engineering tool.

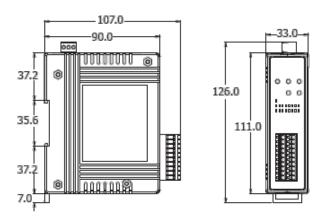
Internal I/O Structure



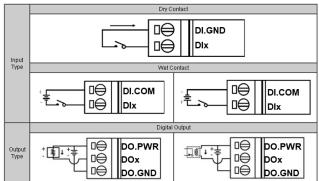
■ I/O Pin & Wire Connection



Dimensions (Units: mm)



Wire Connection

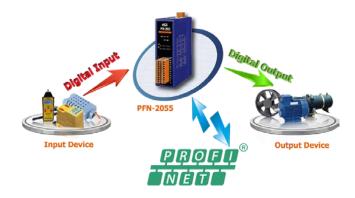


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■ Hardware Specifications

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Hardware	
CPU	32-bit CPU Core
RAM/Flash/EEPROM	32 MB / 4 MB / 8 KB
Watchdog	CPU built-in
ESD Protection	4 kV class B
PROFINET Interface	
Protocol	PROFINET IO Device
Conformance Classes	Class B
Services	RTC, RTA, CL-RPC, DCP, LLDP, I&M
Cycle Time	1 ms (min)
Ethernet Interface	
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
Connector	RJ-45 x 2 (LED indicators) , Integrated 2-Port Switch
Services	ICMP, IGMP, ARP, DHCP, TELNET, TFTP, SNMP, VLAN Priority Tagging
Digital Input	
Channels	8, Dry Contact: Source, Wet Contact: Sink or Source
Dry Contact Level	Off Voltage Level : Open, On Voltage Level : Close to GND
Wet Contact Level	Off Voltage Level : +4 VDC max., On Voltage Level : +10 VDC to +50 VDC
Digital Output	
Channels	8, Sink, Open Collector
Load voltage	+3.5 ~ +50 VDC
Load current	700 mA/Channel (max.)
LED	
Round LED	PWR LED, S1A LED, S1B LED, S2A LED, S2B LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	4 .5W
Mechanism	
Installation	DIN-Rail
Dimensions	33 mm x 107 mm x 126 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 ℃
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

Application



Ordering Information

PFN-2055 CR	PROFINET I/O Module (Isolated 8-ch DI & 8-ch DO) (RoHS)
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