



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 ~ +30 VDC) and operating temperature (-25 ~ +75°C)





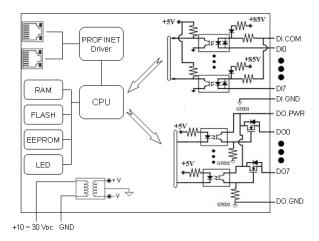




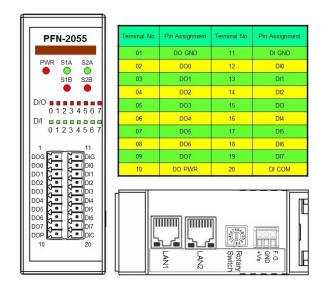
■ Introduction

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.

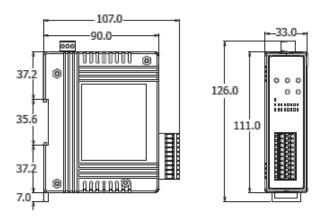
Internal I/O Structure



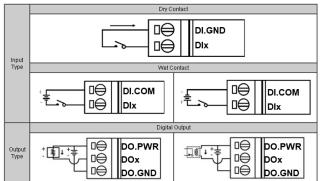
■ I/O Pin & Wire Connection



Dimensions (Units: mm)



Wire Connection



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■ Hardware Specifications

Cations		
Hardware		
32-bit CPU Core		
32 MB / 4 MB / 8 KB		
CPU built-in		
4 kV class B		
PROFINET IO Device		
Class B		
RTC, RTA, CL-RPC, DCP, LLDP, I&M		
1 ms (min)		
10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)		
RJ-45 x 2 (LED indicators) , Integrated 2-Port Switch		
ICMP, IGMP, ARP, DHCP, TELNET, TFTP, SNMP, VLAN Priority Tagging		
8, Dry Contact: Source, Wet Contact: Sink or Source		
Off Voltage Level : Open, On Voltage Level : Close to GND		
Off Voltage Level : +4 VDC max., On Voltage Level : +10 VDC to +50 VDC		
8, Sink, Open Collector		
+3.5 ~ +50 VDC		
700 mA/Channel (max.)		
PWR LED, S1A LED, S1B LED, S2A LED, S2B LED		
Unregulated +10 ~ +30 V _{DC}		
Power reverse polarity protection, Over-voltage brown-out protection		
4 .5W		
DIN-Rail		
33 mm x 107 mm x 126 mm (W x L x H)		
-25 ~ 75 ℃		
-30 ~ 80 ℃		
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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