



PFN-2024 PROFINET I/O Module

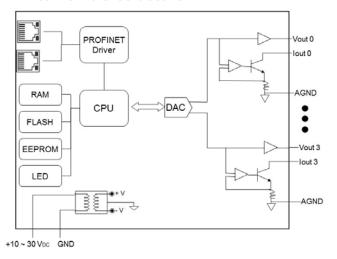
■ Features Protocol: PROFINET IO Device ■ PROFINET Conformance Class B and RT Class 1 Cyclic Time: 1ms (min) ■ Generic GSDML File Provided (Version 2.25) ■ 16-bits resolution DAC ■ Output Range: 0~20mA, 4~20mA, 0~10V, +/-10V, 0~5V, +/-5V 4 kV Contact ESD protection for any terminal ■ The operating temperature range is -25°C~+70°C



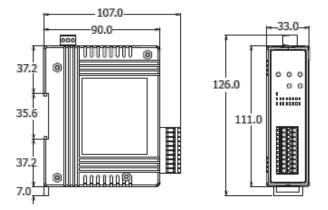
Introduction

The PFN-2024 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 4-channel isolated analog output with voltage and current output types. 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.

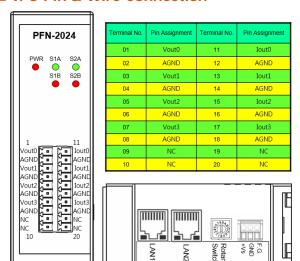
Internal I/O Structure

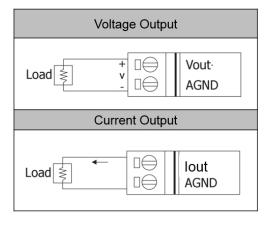


Dimensions (Units: mm)



I/O Pin & Wire Connection



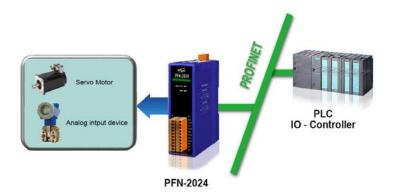


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■ Hardware Specifications

Hardware	
CPU	32-bit CPU Core
RAM/Flash/EEPROM	32 MB / 4 MB / 8 KB
Watchdog	CPU built-in
ESD Protection	4 kV class A
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
Analog Output	·
Channels	4
Output Range	0~20mA, 4~20mA (current sourcing) 0~10V, +/-10V, 0~5V, +/-5V
Resolution	16 bit
Accuracy	+/- 0.1% of FSR
Isolation	1500 VDC
LED	
Round LED	PWR LED, S1A LED, S1B LED, S2A LED, S2B LED
Power	
Power supply	Unregulated +10 ~ +30 VDC
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	7W
Mechanism	
Installation	DIN-Rail
Dimensions	33 mm x 107 mm x 126 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 70 °C
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

■ Application



Ordering Information

PFN-2024 CR PROFINET I/O Module (4-channel Isolated Analog Output Module) (RoHS)	
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