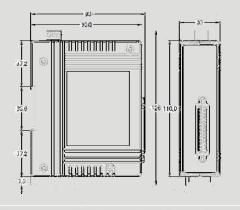
PROFINET Series Products

PROFINET I/O Module



PFN-2019



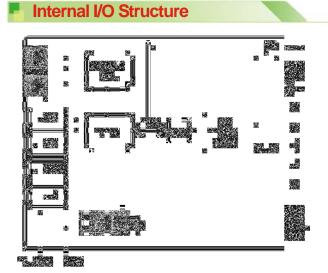
CE FC

Dimensions

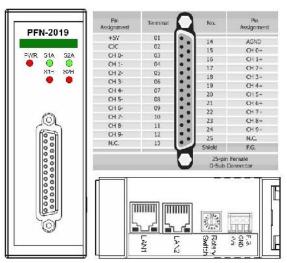
The PFN-2019 is one of the PROFINET IO series products produced by ICP DAS. It provides the PROFINET IO communication protocol with any PROFINET IO controllers. It has 10-channel universal analog input with voltage and current input types. It provides extremely accurate thermocouple measurement and automatically cold-junction compensation for each channel. You can access and configure it by using the GSDML file in any PROFINET Engineering tool.

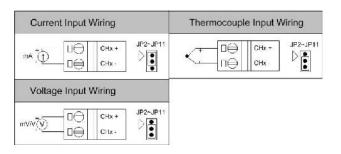
Features

- 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 & 10Hz sample rate
- Supports thermocouple devices with J,K,T,E,R,S,B,N,C
- 4 kV Contact ESD protection for any terminal
- Wide range of power input $(+10 \sim +30 \text{ VDC})$ and operating temperature $(-25 \sim +70^{\circ}\text{C})$



I/O Pin & Wire Connection





Osciloscopios



PLCs

Registradores Software Convertidores

Celdas de carga Adquisición (DAQ loT) PCs industriales

Logicbus

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 | 4 KV Class A |
| 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 Input | |
| Channels | 10 channel differential |
| Input Range | +/-15mV, +/-50mV, +/-100mV, +/-500mV, +/-1V, +/-2.5V, +/-5V, +/-10V +/-20mA, 0~20mA, 4~20mA (Jumper Selectable), |
| | Thermocouple Type: J, K, T, E, R, S, B, N, C |
| Resolution | 16 bit |
| Sample Rate | 10 Hz (Total) |
| Accuracy | +/- 0.1% of FSR |
| Open Wire Detection | Yes |
| LED | |
| Round LED | PWR LED, S1A LED, S1B LED, S2A LED, S2B LED |
| Power | |
| Power supply | Unregulated $+10 \sim +30$ VDC |
| Protection | Power reverse polarity protection, Over-voltage brown-out protection |
| Power Consumption | 5W |
| Mechanism | |
| Installation | DIN-Rail |
| Dimensions | 33 mm x 93 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 |
| | |

Applications



11 F

Registradores

Ordering Information

PFN-2019/S CR

Cámaras

HMIs

Sensores

PLCs

PROFINET I/O Module (10-channel Universal Analog Input Module) (RoHS) include PFN-2019 module and a DB-1820 daughter board

Convertidores

Software

¡Tu sitio de automatización!

Osciloscopios Celdas de carga Adquisición (DAQ loT) PCs industriales

la.logicbi

