



CAN-2019D/S CAN-2019D/S2

DeviceNet Slave Module of 10-channel Universal AI

Features

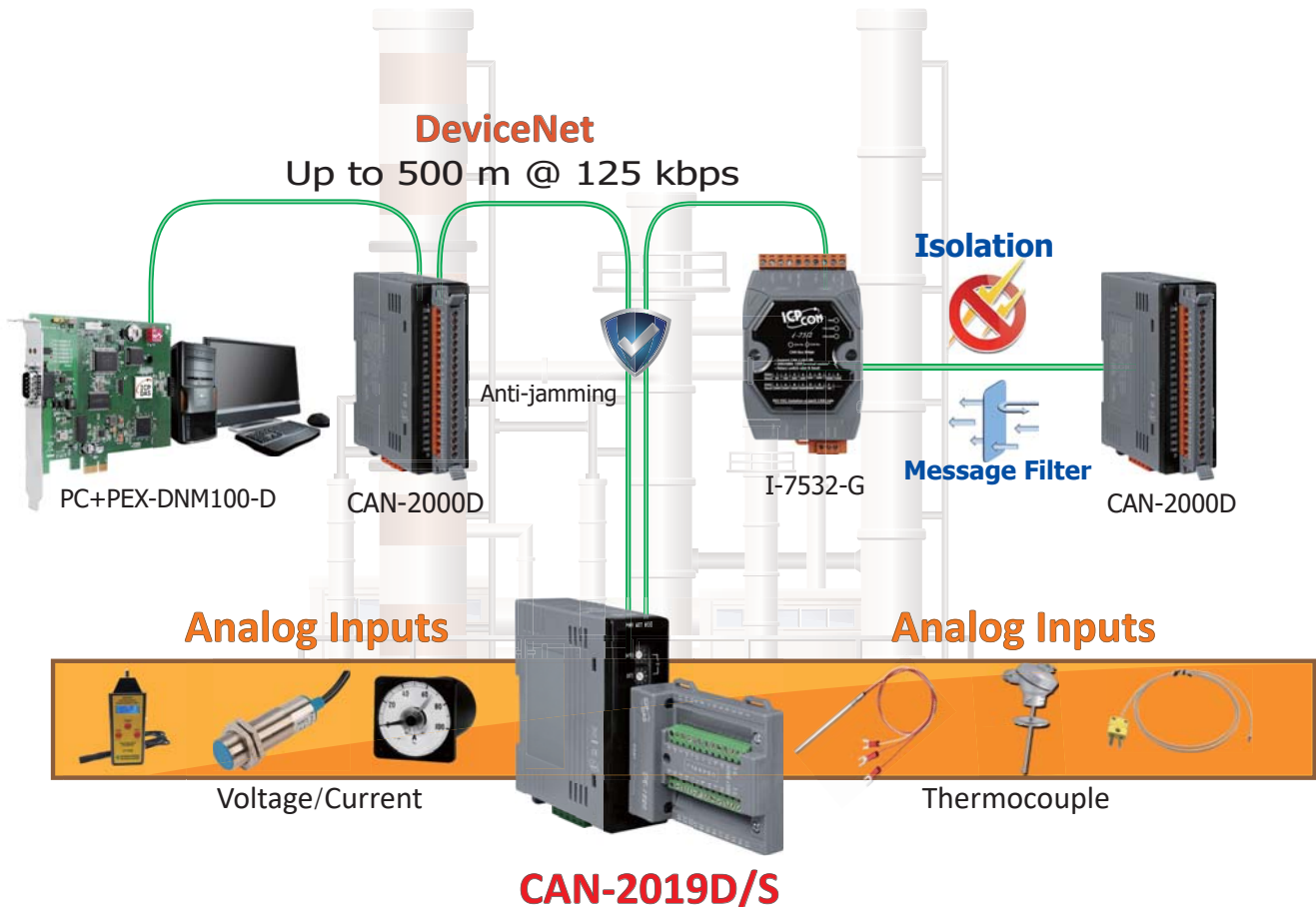
- 10-channel, 16-bit resolution thermocouple input
DeviceNet slave general-purpose I/O device
- Comply with DeviceNet specification Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5
- Group 2 Only Server (non UCMM-capable)
- Connection supported:
 - 1 connection for Explicit Messaging
 - 1 connection for Polled I/O
 - 1 connection for Bit-Strobe I/O connection
- Support DeviceNet Heartbeat and Shutdown message
- Provide EDS file for DeviceNet master interface



Introduction

DeviceNet is one kind of the network protocols based on the CAN bus and mainly used for the embedded network of the machine control, such as industrial machine control, aircraft engines monitoring, factory automation, medical equipments control, remote data acquisition, environmental monitoring, and packaging machines control, etc. The CAN-2019D follows DeviceNet specification Volume I/II, Release 2.0. User can access the thermocouple input status and set the configuration via DeviceNet EDS file. CAN-2019D has 10-channel thermocouple input and it can be used to various applications. By the DeviceNet masters of ICP DAS, you can quickly build a DeviceNet network to approach your requirements. For more information about the DeviceNet master interfaces and other DeviceNet products, please refer to the following web site.

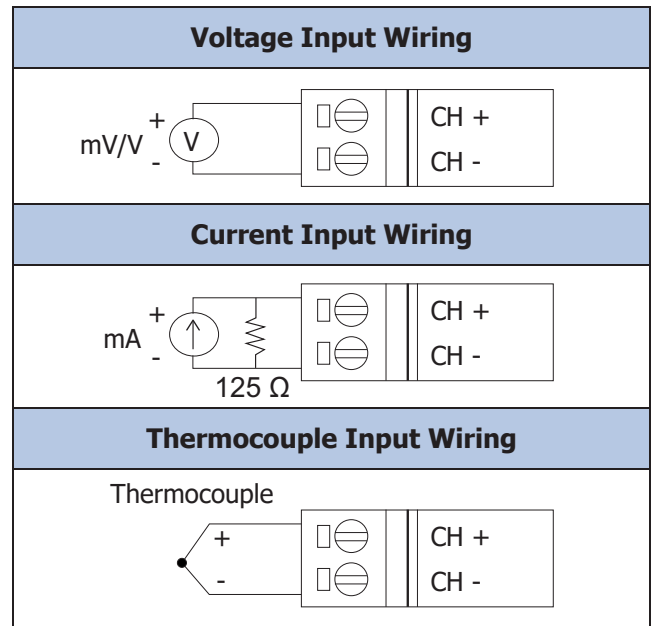
Applications



Pin Assignments

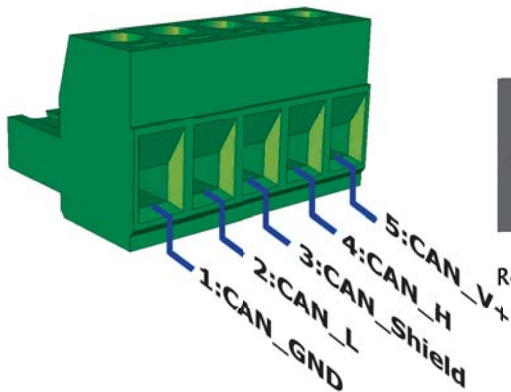
Pin Assignment Name	Terminal No.	Pin Assignment Name
+5V	01	14 DGND
CJC	02	15 CH0+
CH0-	03	16 CH1+
CH1-	04	17 CH2+
CH2-	05	18 CH3+
CH3-	06	19 CH4+
CH4-	07	20 CH5+
CH5-	08	21 CH6+
CH6-	09	22 CH7+
CH7-	10	23 CH8+
CH8-	11	24 CH9+
CH9-	12	25 AGND
AGND	13	

Shield F.G.



CAN Pin & Baud Rate Rotary

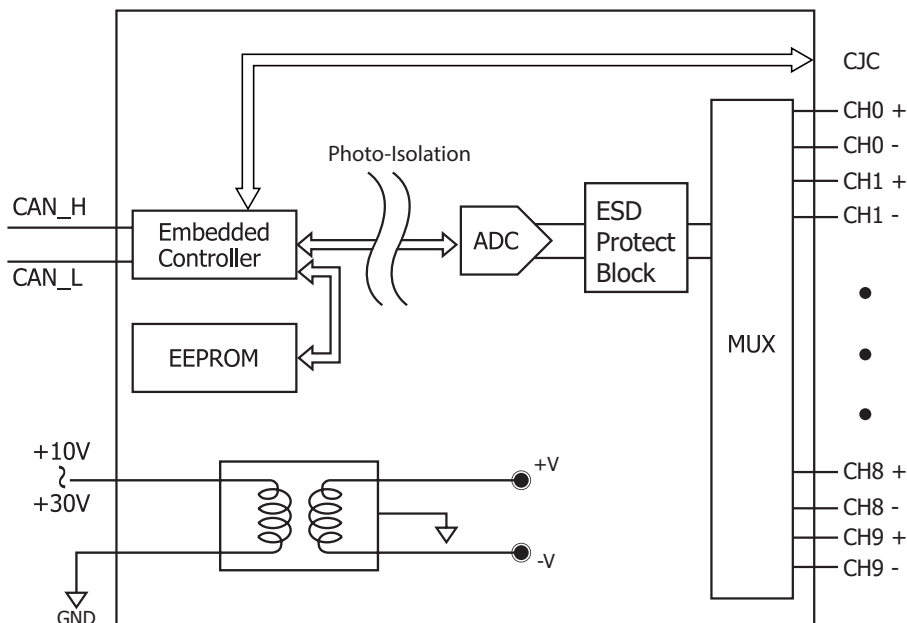
5-pin screw terminal block



Baud rate Rotary switch

Switch Value	Baud Rate
0	125 kbps
1	250 kbps
2	500 kbps

Internal I/O Structure

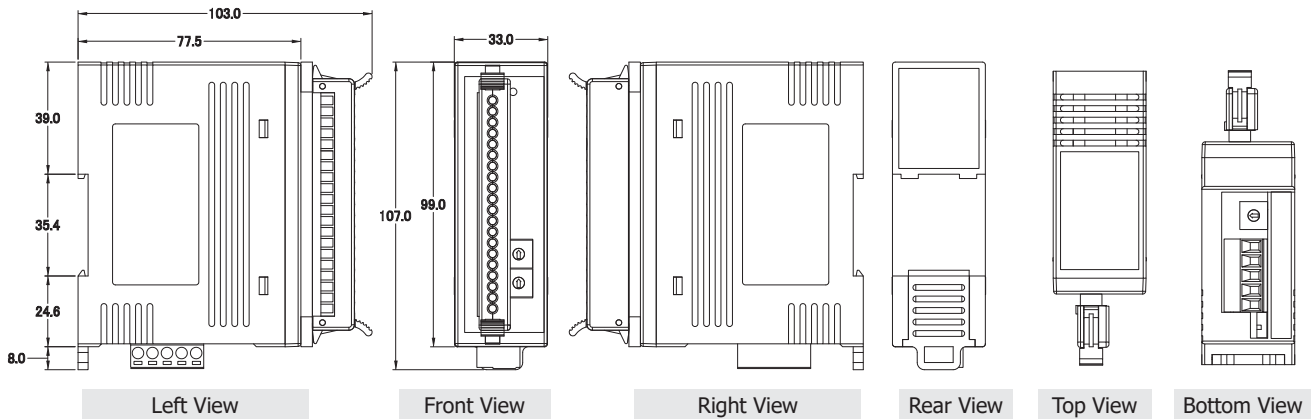


Specifications

LED Indicators	
Status	1 x Power 2 x DeviceNet status
Analog Input	
Channels	10 (Differential)
Sensor Type	+/- 15mV, +/- 50mV, +/- 100mV, +/- 500mV, +/- 1V, +/- 2.5V, +/- 5V, +/- 10V +/-20mA,(Requires Optional External 125 Ohm Resistor) Thermocouple (J, K, T, E, R, S, B, N, C)
Resolution	16-bit
Accuracy	+/-0.1% FSR
Sampling Rate	10 Samples/Sec. (Total)
Input Impedance	>400 k Ω
Common Mode Rejection	86 dB Min.
Normal Mode Rejection	100 dB
Overvoltage Protection	240 Vrms
Individual Channel Configuration	Yes
Open Wire Detection	Yes
Zero Drift	+/- 10 μ V/ $^{\circ}$ C
Span Drift	+/-25 ppm/ $^{\circ}$ C
Isolation	3000 VDC

DeviceNet	
Ports	1
Connection Supported	1 connection for Explicit Messaging 1 connection for Polled I/O 1 connection for Bit-Strobe I/O
Baud Rate	125 kbps, 250 kbps, 500 kbps
Terminal Resistor	Switch for 120 Ω terminal resistor
Specification	Volume I, Release 2.0 & Volume II, Release 2.0, Errata5
Node ID	0 ~ 63
Shutdown Message	Yes
Heartbeat Message	Yes
Subscribe	Group 2 Only Server
Power	
Consumption	1.5 W
Mechanical	
Dimensions (mm)	33 x 99 x 78 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75 $^{\circ}$ C
Storage Temperature	-30 ~ +80 $^{\circ}$ C
Humidity	10 ~ 90% RH, Non-condensing

Dimensions (Units: mm)



Ordering Information

CAN-2019D/S CR	DeviceNet Slave Module of 10-channel Universal AI (RoHS) Includes a DB-1820 daughter board
CAN-2019D/S2 CR	DeviceNet Slave Module of 10-channel Universal AI (RoHS) Includes a DN-1822 daughter board, a 1.8m Cable