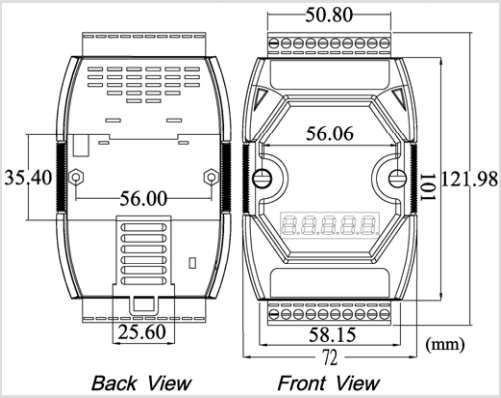
CAN Series Products

CAN bus series Programmable Automation Controller

I-7188XBD-CAN



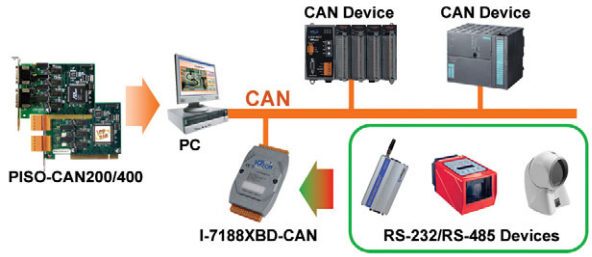
Dimensions

The I-7188XBD-CAN series PACs (Programmable Automation Controller) are powered by 80188-40 processor with 512K bytes of static RAM, and 512K bytes of Flash memory. All of them provide several communication interfaces to adapt to various applications, such as CAN port, RS-232 port and RS-485 port. Uses can program their application program flexibly with C/C++ language because of the built-in MiniOS7 operation system. Besides, the I-7188XBD-CAN series PACs have different I/O types for users to match their requirement.

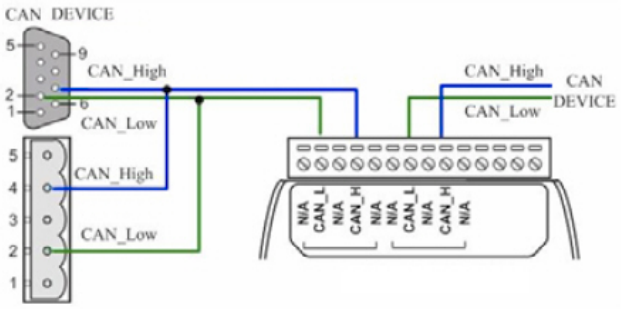
Features

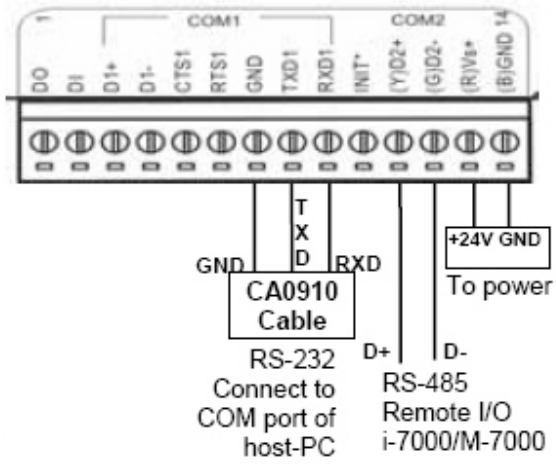
- 2500Vrms photo-isolation protection. on CAN bus
- Compatible with CAN specification 2.0 parts A and B.
- Programmable transfer rate up to 1 Mbps.
- Jumper for 120Ω terminator resistor for CAN channel
- 64-bit hardware unique serial number inside
- COM driver support interrupt & 1K QUEUE input buffer
- COM port: COM1, COM2
- Built-in RTC, NVRAM, EEPROM
- One digital Input channel and one open collector output channel
- Built-in self-tuner ASIC controller on RS-485 port
- 7-segment LED display
- Built-in ICP DAS's MiniOS7
- Support the CAN bus instead of the X-bus, so it can not be add-on any X-board

Application



Wiring and Pin Assignments





Hardware Specifications

PACs	I-7188XBD-CAN
Core specification (64 bit hardware serial number, built-in Watchdog Timer)	
CPU	Am188™ES: 40M Hz or compatible
FLASH	512K bytes, Erase unit is one sector (64K bytes); 100,000 erase/write cycles
SRAM	512K bytes
EEPROM	2048 bytes (8 blocks, each block has 256 bytes); Data retention > 100 years; 1,000,000 erase/write cycles.
NVSRAM	31 bytes, battery backup, data valid up to 10 years
Real Time Clock	Year-2000 compliance; seconds, minutes, hours, date of the month, year, valid up from 1980 to 2079
CAN Interface	
CAN Signal Support	CAN_H, CAN_L
CAN Controller	Philips SJA1000T CAN Controller
CAN Transceiver	Philips 82C250 CAN Transceiver
Protection	1000 VDC power protection on CAN side, 2500Vrms photo-couple isolation on CAN bus
Clock Frequency	16MHz (Transmission Speed : 1 M bps)
Serial COM Interface	
COM1	RS-485: D1+, D1-, self-tuner ASIC inside
COM2	RS-485: D2+, D2-, Self-tuner inside RS-232: TXD, RXD, RTS, CTS, GND
Communication Speed	115200 max
LED Display	
Program LED	L1, L2, L3
System LED	Power/Communication indicator
LED Directors	L1, L2, L3
Display	7-segment LED: 5digit
Digital Input/Output	
Digital Input	1 channel, Input type: non-isolated, on voltage level : +1VDC max, off voltage level: +3.5V~30VDC (open)
Digital Output	1 channel, Output type: Open-collector, Output current:100mA, Max load voltage:+30VDC
Operating Environment	
Operating Temp.	-25C to 75C
Storage Temp.	-30C to 85C
Humidity	5 ~ 95%
General	
Protection	Power reverse polarity protection
ESD Protection	Yes (4KV ESD)
Power Input Range	+10VDC to +30VDC
Power Consumption	3W
Dimensions	122 mm x 72 mm x 33 mm (H x W x D)

Ordering Information

I-7188XBD-CAN	Programmable automation controller with two series communication port (RS-232/RS-485), one CAN port, seven segment Display, developing tool kit 512k flash ,512k SRAM, Minios7, 1 DI and 1 DO channels
I-7188XBD-CAN CR	Programmable automation controller with two series communication port (RS-232/RS-485), one CAN port, seven segment Display, developing tool kit 512k flash ,512k SRAM, Minios7, 1 DI and 1 DO channels (RoHS)