

uPAC-7186EXD-CAN-G

uPAC-7186 CAN Programmable Controller

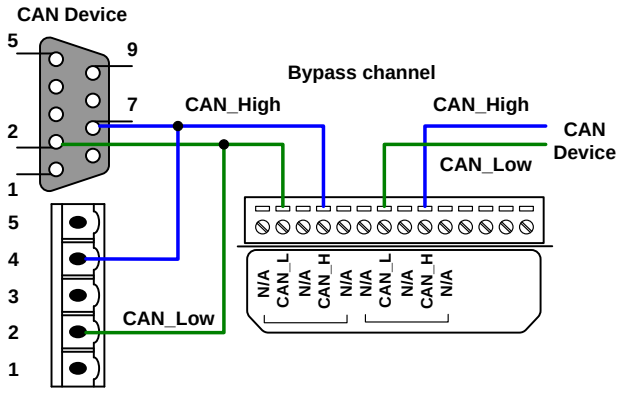
Features

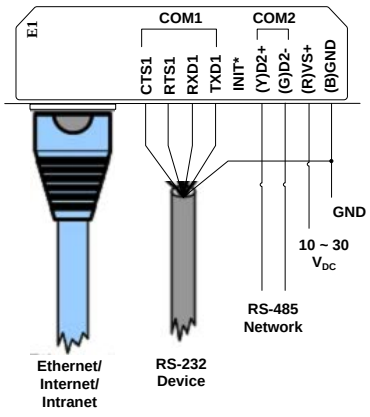
- Supports a variety of TCP/IP Features, including TCP UDP, IP, ICMP
- 10/100BASE-T Ethernet Controller
- Supports virtual COM port settings
- 1000V DC-DC isolation protection on the CAN bus side
- Programmable transfer rate up to 1 Mbps
- Jumper select 120Ω terminal resistor for CAN channel
- 64-bit hardware unique serial number inside
- COM port: COM1 (RS-232), COM2 (RS-485)
- Built-in RTC, NVRAM, EEPROM
- Equipped with a programmable 7-segment display

Introduction

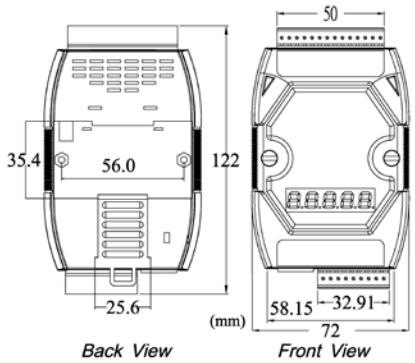
"Embedded Internet" and "Embedded Ethernet" are hot topics today. Nowadays the Ethernet protocol becomes the de-facto standard for local area networks. Via Internet, connectivity is occurring everywhere, from home appliances to vending machines to testing equipment to UPS...etc. Using Ethernet for network in industrial area is appealing because the required cabling is already installed. The uPAC-7186EXD-CAN PACs (programmable Automation controller) are powered by 80186-80 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, RS-485 port and Ethernet interface. Uses can program their application program flexibly with C/C++ language because of the built-in MiniOS7 operation system. Besides, the uPAC-7186EXD-CAN series PACs have different I/O types for users to match their requirements. For uPAC-7186EXD-CAN, there is no I/O channel. It is useful for transferring commands from differential communication interfaces. Therefore, the uPAC-7186EXD-CAN series PACs are economic and convenient solution for diversification of CAN application.

Wiring and Pin Assignments





Dimensions (Units: mm)



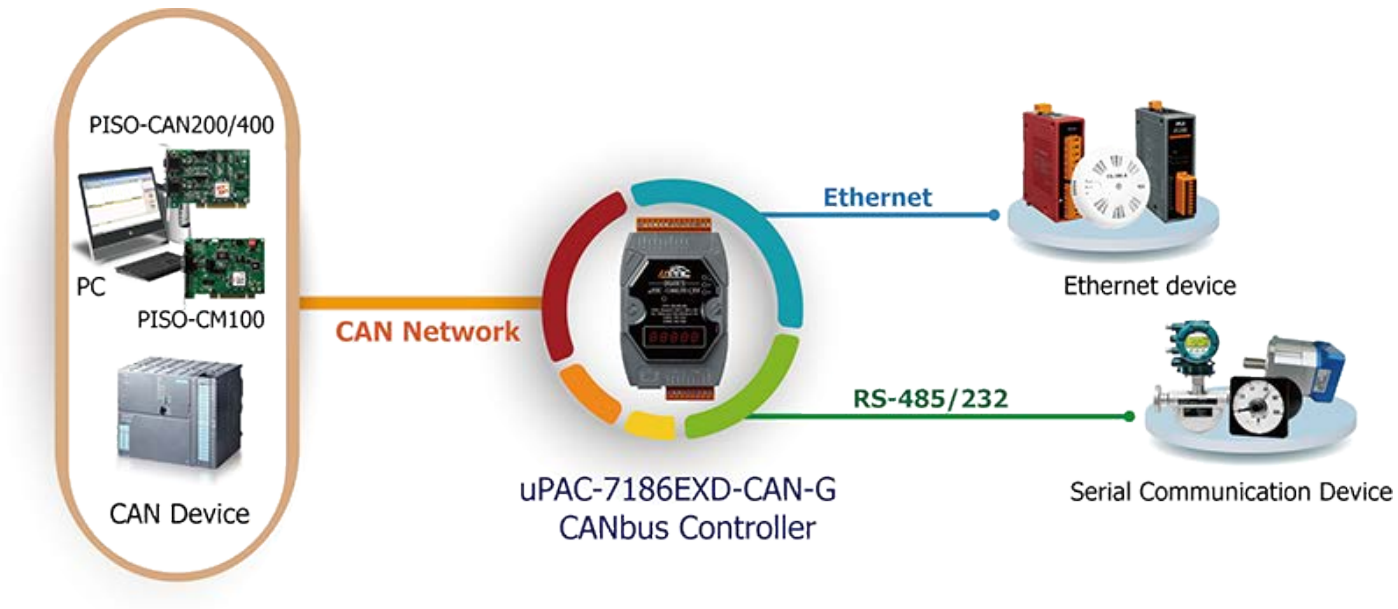
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Specifications

CPU Module	
CPU	80186, 80 MHz or compatible
EEPROM	16 KB; Data retention: 40 years; 1,000,000 erase/write cycles
Flash	512 KB; Erase unit is one sector (64 KB); 100,000 erase/write cycles
NVRAM	31 bytes (battery backup, data valid for up to 10 years)
SRAM	512 KB
Real Time Clock	Yes
LED Indicators	
Status	3 x Programmable
Ethernet	
Ports	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
COM Ports	
Ports	1 x RS-232 (5-pin screwed terminal block (TxD, RxD, RTS, CTS, GND) 1 x RS-485 (Self-turner inside; 2-pin screwed terminal block (DATA+, DATA-)
Baud Rate	110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

CAN	
Controller	NXP SJA1000T with 16 MHz clock
Ports	1
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Baud Rate	10 k ~ 1 M bps
Isolation	1000 VDC for DC-to-DC, 2500 Vims for photo-couple
Terminal Resistor	Jumper for 120 Ω terminal resistor
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	3 W
Mechanical	
Casing	Plastic
Dimensions (mm)	72 x 122 x 33 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

Application



Ordering Information

uPAC-7186EXD-CAN-G CR	uPAC-7186 CAN Programmable Controller with Series Port, Ethernet port, 7-segment Display and Programable LEDs (RoHS)

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