





I-7188XC(D)-512 | I-7188XC(D)/512/RTC

Standard Palm-sized Ethernet PAC with 80188-20 CPU, MiniOS7, 128 KB SRAM, 2 DI, 3 DO and 1 I/O Bus (7-Segment LED Display)

■ Features

- Built-in High-Performance MiniOS7 from ICP DAS
- Easy-to-use SDKs (Using C language)
- Various Storage Media
 - 512 KB Flash
 - 2 KB EEPROM
- Various Communication Interfaces (RS-232/RS485)
- Built-in Digital Input/Output
 - 2-ch Digital Input
 - 3-ch Digital Output
- Build-in Watchdog Timer









Introduction

The I-7188XC(D)-512 and I-7188XC(D)/512/RTC are for industry applications and can be used to replace PC or PLC devices in harsh environments. The I-7188XC(D)-512 and I-7188XC(D)/512/RTC controller are designed for palm-size embedded systems that require high reliability, PC-compatibility, and compactnes at a reasonable price.

The controllers can be integrated into an OEM product as a processor core component. By building your product around I-7188XC(D)-512 and I-7188XC(D)/512/RTC controller, you reduce the time from design to market introduction, cut development costs, minimize technical risks, and deliver a more reliable product.

Depending on the type of embedded firmware programs that are being developed, and which I/O Expansion Board, the I-7188XC(D)-512 and I-7188XC(D)/512/RTC can be used as a single versatile controller.

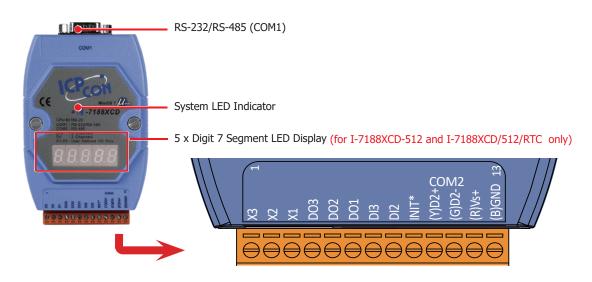
■ Powerful Embedded OS — MiniOS7



MiniOS7 is the most stable OS used in the last decade. Up to now, several hundred thousand copies with our PACs have been distributed worldwide.

- DOS-like embedded OS
- Antivirus ability
- · Internet connectivity
- Short boot period (<1 Second)
- · Less memory resource required
- Faster watchdog response time
- Libraries & demo programs for various peripherals, devices and remote I/O modules

Appearances



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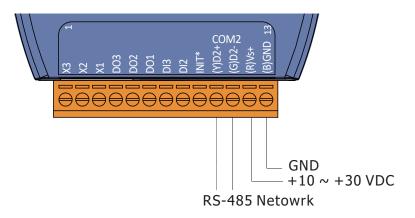
■ Specifications

| Model | I-7188XC-512 | I-7188XCD-512 | I-7188XC/512/RTC | I-7188XCD/512/RTC |
|-----------------------|--------------------------------------------------------------------------------------------|------------------------------------|------------------|------------------------------------|
| Software | | | | |
| OS | MiniOS7 | | | |
| Development | C Language | | | |
| CPU Module | | | | |
| CPU | 80188, 20 MHz or compatible | | | |
| SRAM | 128 KB | | | |
| Flash | 512 KB | | | |
| EEPROM | 2 KB | | | |
| NVRAM | 31 Bytes | | | |
| RTC (Real Time Clock) | Provide seconds, minutes, hours, dates, day of week, month, year | | | |
| Watchdog Timer | Yes | | | |
| Display | | | | |
| Туре | - | 5 x Digit 7 Segment LED Display | - | 5 x Digit 7 Segment LED Display |
| LED Indicator | | | | |
| Status | 1 x System | | | |
| COM Ports | | | | |
| Baud Rate | 115200 bps Max. | | | |
| COM1 | RS-232/RS-485 (RS-232: RXD, TXD, RTS, CTS, GND, RS-485: Data+, Data- with self-tuner ASIC) | | | |
| COM2 | RS-485 (Data+, Data-) with internal self-tuner ASIC | | | |
| I/O Expansion | | | | |
| I/O Type | X-board | | | |
| Digital Input | | | | |
| Channels | 2 | | | |
| Туре | Dry Contact | | | |
| ON Voltage Level | Close to GND | | | |
| OFF Voltage Level | | 0 | pen | |
| Digital Output | | | | |
| Channels | 3 | | | |
| Туре | Open Collector | | | |
| Load Voltage | +30 VDC Max. | | | |
| Max. Load Current | 100 mA | | | |
| Mechanical | | | | |
| Dimension (W x H x D) | 72 mm x 119 mm x 33 mm | | | |
| Installation | DIN-Rail Mounting | | | |
| Environmental | | | | |
| Operating Temperature | -25 ~ +75 °C | | | |
| Storage Temperature | -40 ∼ +80 °C | | | |
| Humidity | 5 ~ 90 % RH, Non-condensing | | | |
| Power | | | | |
| Input Range | | | +30 VDC | |
| Consumption | 2.0 | 0 W | 3.0 |) W |

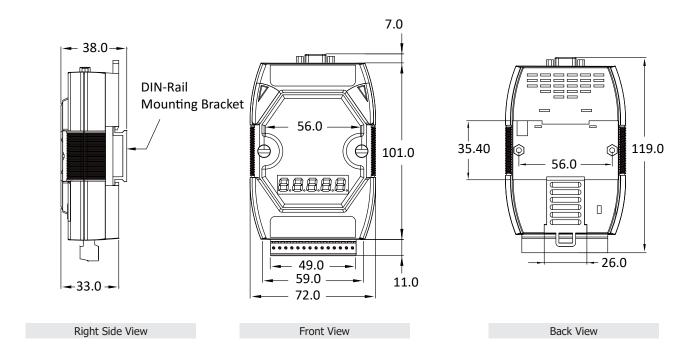
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■ Wiring Connections



■ Dimensions (Units: mm)



■ Ordering Information

| I-7188XC-512 CR | Standard Palm-sized Ethernet PAC with 80188-20 CPU, MiniOS7, 128 KB SRAM, 2 Serial | | |
|----------------------|--------------------------------------------------------------------------------------|--|--|
| 1-/100AC-512 CK | Ports, 2 DI, 3 DO and 1 I/O Bus (Blue Cover) (RoHS) | | |
| I-7188XC/512/RTC CR | Standard Palm-sized Ethernet PAC with 80188-20 CPU, MiniOS7, 128 KB SRAM, RTC, 2 | | |
| 1-7100AC/512/RTC CR | Serial Ports, 2 DI, 3 DO and 1 I/O Bus (Blue Cover) (RoHS) | | |
| I-7188XCD-512 CR | Standard Palm-sized Ethernet PAC with 80188-20 CPU, MiniOS7, 128 KB SRAM, 2 Serial | | |
| 1-7100ACD-312 CR | Ports, 2 DI, 3 DO and 1 I/O Bus and 7-Segment LED Display (Blue Cover) (RoHS) | | |
| I-7188XCD/512/RTC CR | Standard Palm-sized Ethernet PAC with 80188-20 CPU, MiniOS7, 128 KB SRAM, RTC, 2 | | |
| 1-/100ACD/512/KIC CK | Serial Ports, 2 DI, 3 DO and 1 I/O Bus and 7-Segment LED Display (Gray Cover) (RoHS) | | |

Accessories

| X-Board | Add-on I/O Expansion Board |
|---------|----------------------------|
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