ICP DAS

I-7188XB(D)-512

Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 1 DI, 1 DO and 1 I/O Bus (7-Segment LED Display)

▣ Features

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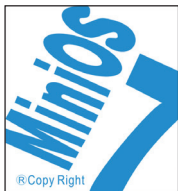- ■ Build-in Watchdog Timer

CE FC RoHS [WEEE]

▣ Introduction

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

The controllers can be integrated into an OEM product as a processor core component. By building your product around I-7188XB(D-512) 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-7188XB(D)-512 can be used as a single versatile controller.
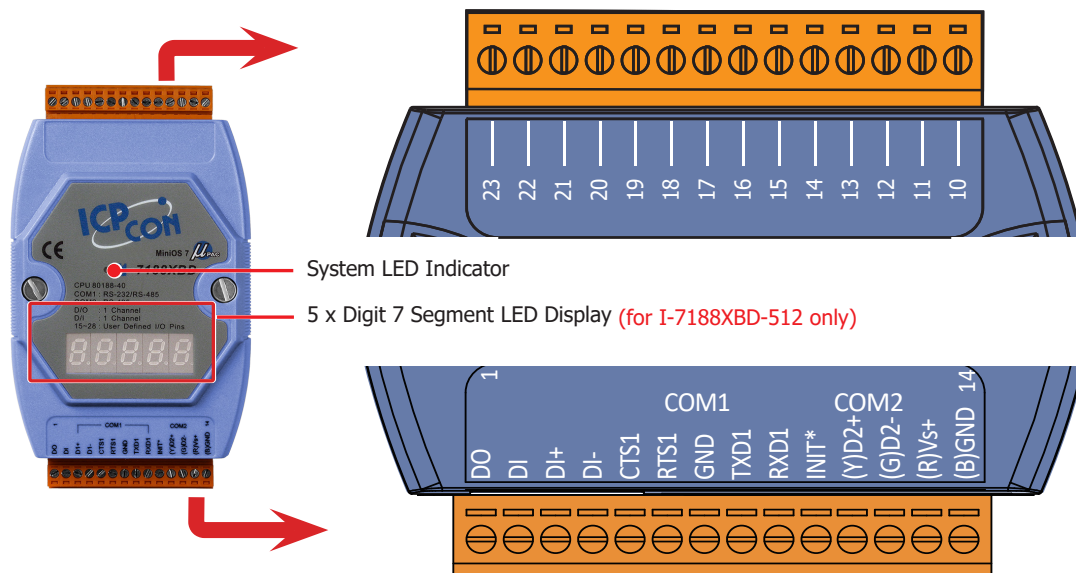
▣ Powerful Embedded OS — MiniOS7

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
- Libraries & demo programs for various peripherals, devices and remote I/O modules

- Short boot period (<1 Second)
- Less memory resource required
- Faster watchdog response time
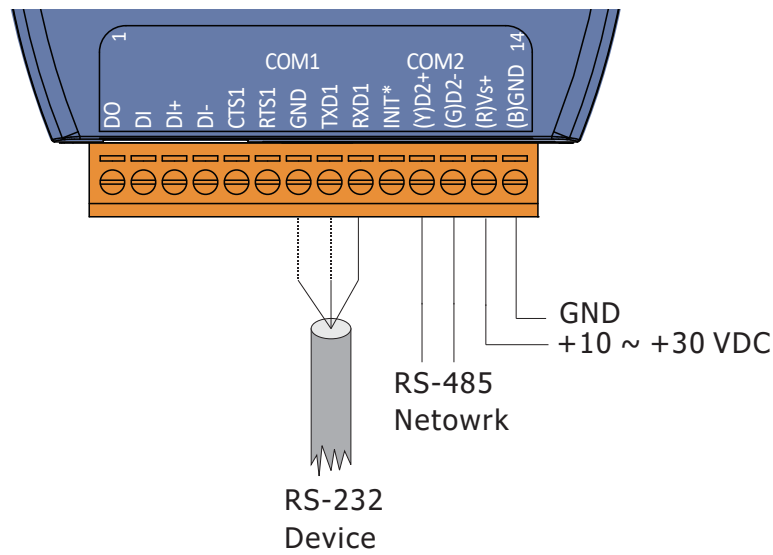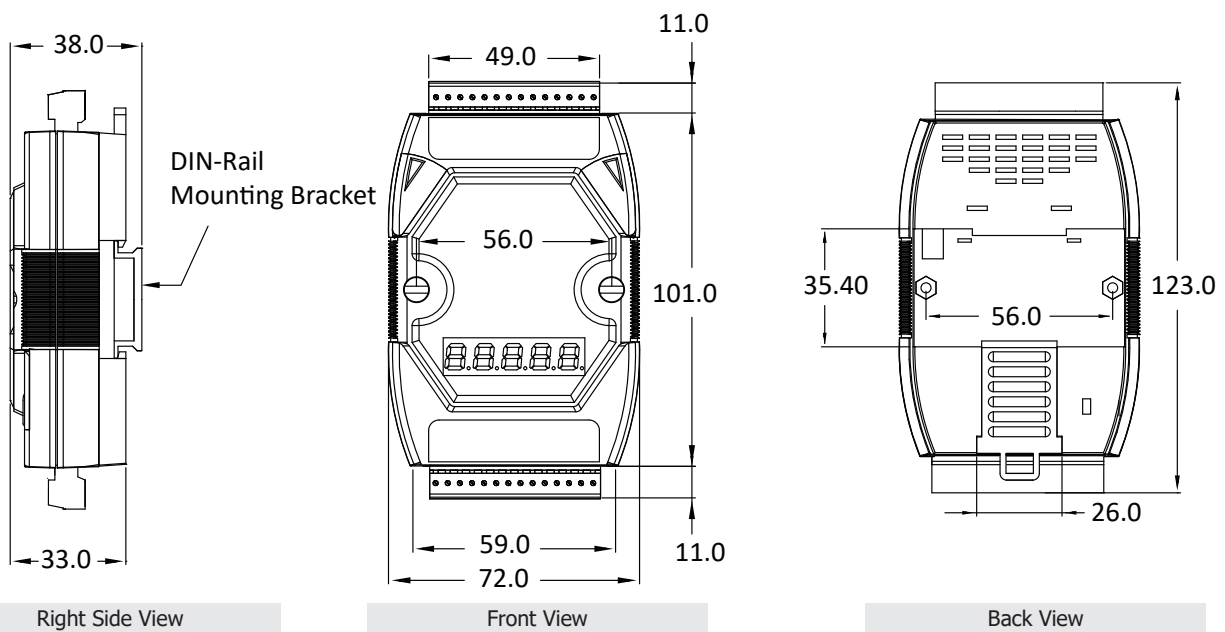
▣ Appearances

System LED Indicator

5 x Digit 7 Segment LED Display (for I-7188XBD-512 only)

23 22 21 20 19 18 17 16 15 14 13 12 11 10

1 DO DI DI+ DI- CTS1 RTS1 GND TXD1 RXD1 INIT* (Y)D2+ (G)D2- (R)Vs+ (B)GND 14

COM1   COM2

■ Specifications

Model	I-7188XB-512	I-7188XBD-512
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80188, 40 MHz or compatible	
SRAM	512 KB	
Flash	512 KB	
EEPROM	2 KB	
NVRAM	31 Bytes	
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year	
64-bit Hardware Serial Number	Yes	
Watchdog Timer	Yes	
Display		
Type	-	5 x Digit 7 Segment LED Display
LED Indicator		
Status	1 x System	
Communication Port		
Baud Rate	115200 bps Max.	
COM1	RS-232/RS-485 (RXD, TXD, RTS, CTS, GND for RS-232, Data+, Data- for RS-485 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	1	
Dry Contact, ON Voltage Level	Close to GND	
Dry Contact, OFF Voltage Level	Open	
Digital Output		
Channels	1	
Type	Open Collector	
Load Voltage	+30 VDC Max.	
Max. Load Current	100 mA	
Mechanical		
Dimension (W x H x D)	72 mm x 123 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	+10 ~ +30 VDC	
Consumption	2.0 W	3.0 W

Wiring Connections

Dimensions (Units: mm)

Right Side View	Front View	Back View

Ordering Information

I-7188XB-512 CR	Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 2 Serial Ports, 1 DI, 1 DO and 1 I/O Bus (Blue Cover) (RoHS)
I-7188XB-512-G CR	Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 2 Serial Ports, 1 DI, 1 DO and 1 I/O Bus (Gray Cover) (RoHS)
I-7188XBD-512 CR	Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 2 Serial Ports, 1 DI, 1 DO and 1 I/O Bus and 7-Segment LED Display (Blue Cover) (RoHS)

Accessories

X-Board	Add-on I/O Expansion Board