

# 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)/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.

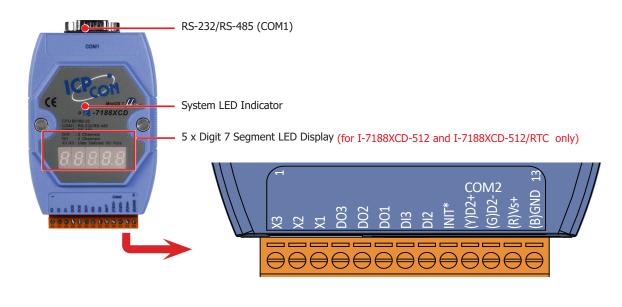
### Powerful Embedded OS — MiniOS7



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
- Short boot period (<1 Second)</li>Less memory resource required
  - - Faster watchdog response time
- Antivirus abilityInternet connectivity
- Libraries & demo programs for various peripherals, devices and remote I/O modules

### Appearances

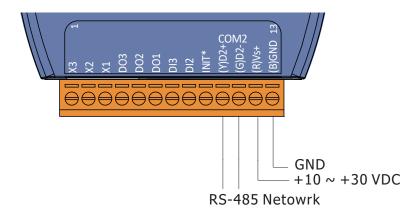


# Specifications

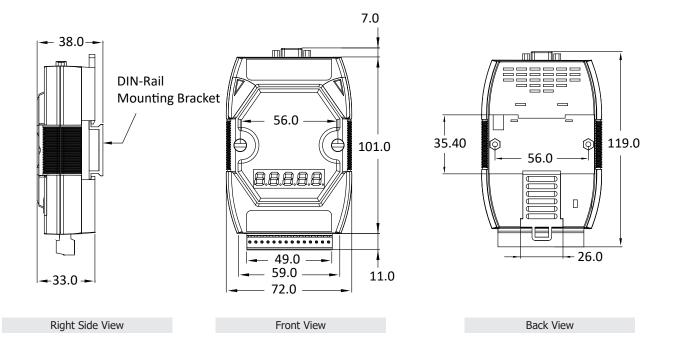
Model	I-7188XC-512	I-7188XCD-512	I-7188XC-512/RTC	I-7188XCD-512/RTC
Software	1	1	1	I
OS	MiniOS7			
Development	C Language			
CPU Module	1			
CPU	80188, 20 MHz or compatible			
SRAM	128 KB			
Flash	512 KB			
EEPROM	2 КВ			
NVRAM	31 Bytes			
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, 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			
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)			485 with self-tuner ASIC)
COM2		RS-485 (Data+, Data-) wi	ith internal self-tuner ASIC	
I/O Expansion	1			
І/О Туре	X-board			
Digital Input	1			
Channels	2			
Dry Contact, ON Voltage Level	Close to GND			
Dry Contact, OFF Voltage Level	Open			
Digital Output	Γ			
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			75.00	
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-40 ~ +80 °C			
Humidity	5 ~ 90 % RH, Non-condensing			
Power			20.1/20	
Input Range	+10 ~ +30 VDC			
Consumption	2.0	) W	3.0	) W



## 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 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 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 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 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