ICP DAS

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
  - RS-485
- Programmable LED Indicator
- Build-in Watchdog Timer

I-7188(D)/512

Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7, 256 KB SRAM (7-Segment LED Display)
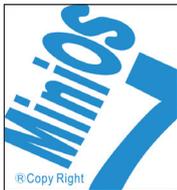
📁 Introduction

The I-7188(D)/512 is for industry applications and can be used to replace PC or PLC devices in harsh environments. The I-7188(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-7188(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, the I-7188(D)/512 can be used as a single versatile controller.
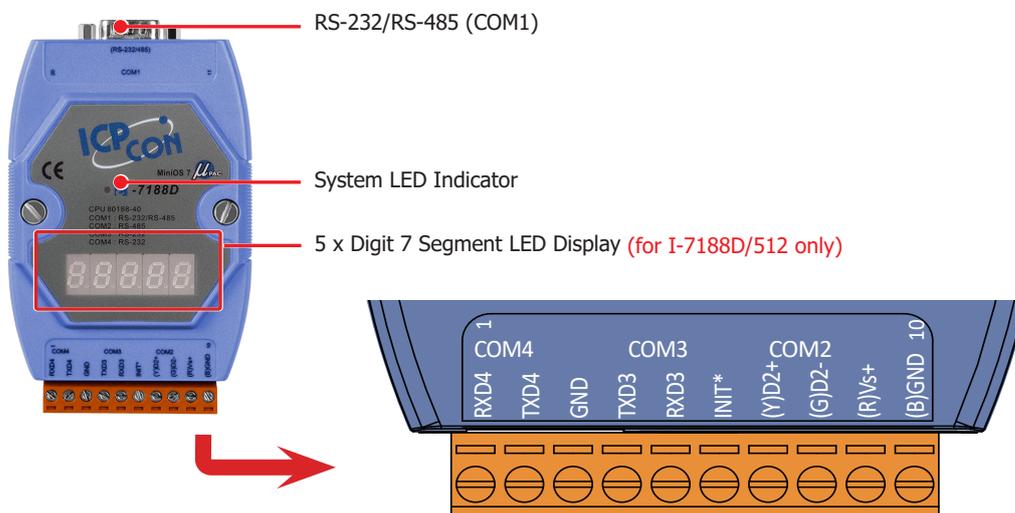
📁 Powerful Embedded OS — MiniOS7

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

RS-232/RS-485 (COM1)
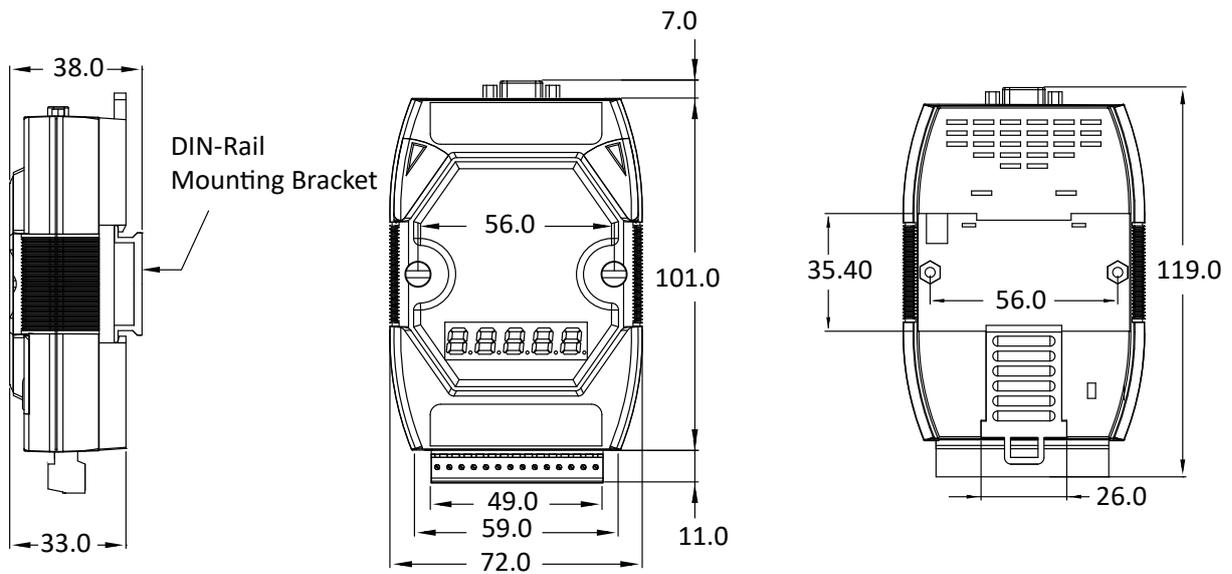
System LED Indicator

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

COM4			COM3			COM2			
RXD4	TXD4	GND	TXD3	RXD3	INIT*	(Y)D2+	(G)D2-	(R)Vs+	(B)GND

■ Specifications

Model	I-7188/512	I-7188D/512
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80188, 40MHz or compatible	
SRAM	256 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		
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, DTR, DSR, DCD, RI, GND for RS-232, Data+, Data- for RS-485)	
COM2	RS-485 (Data+, Data-)	
COM3	RS-232 (TXD, RXD, GND)	
COM4	RS-232 (TXD, RXD, GND)	
I/O Expansion		
I/O Type	X-board	
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	+10 ~ +30 VDC	
Protection	Reverse Polarity Protection	
Consumption	2.0 W	3.0 W

■ Dimensions (Units: mm)

| Right Side View | Front View | Back View |

■ Ordering Information

I-7188/512 CR	Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7 and 256 KB SRAM (Blue Cover) (RoHS)
I-7188D/512 CR	Standard Palm-sized Ethernet PAC with 80188-40 CPU, MiniOS7, 256 KB SRAM and 7-Segment LED Display (Blue Cover) (RoHS)