



I-7188XA(D)

Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7,
512 KB SRAM, 2 DI, 2 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
  - 2-ch Digital Output
- Build-in Watchdog Timer

Introduction

The I-7188XA(D) is for industry applications and can be used to replace PC or PLC devices in harsh environments. The I-7188XA(D) 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-7188XA(D) controller, you reduce the time from design to market introduction, cut development costs, minimize technical risks, and deliver a more reliable product.

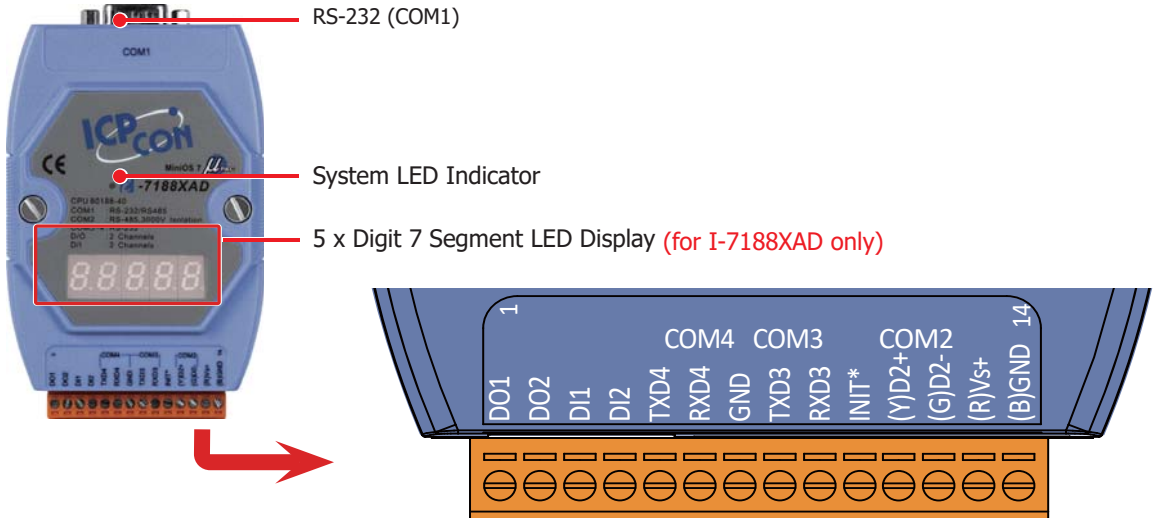
Depending on the type of embedded firmware programs that are being developed, and which I/O Expansion Board, the I-7188XA(D) can be used as a single versatile controller.

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



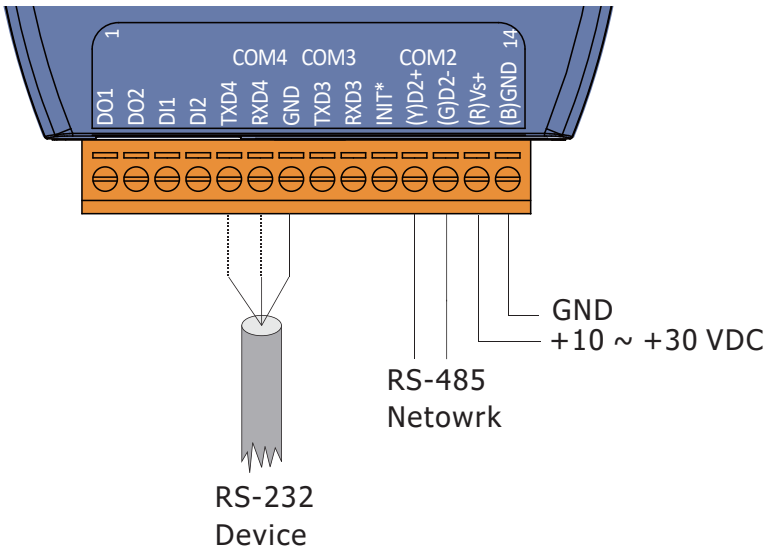
LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Specifications

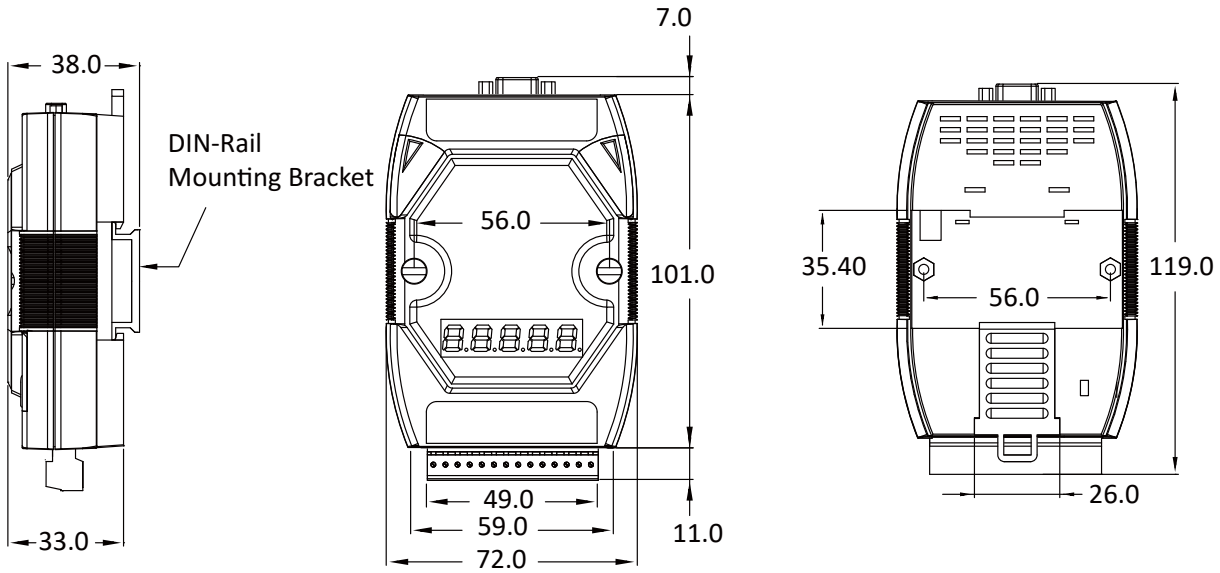
Model	I-7188XA	I-7188XAD
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80188, 40 MHz or compatible	
SRAM	512 KB	
Flash	512 KB	
EEPROM	2 KB	
NVRAM	31 Bytes	
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year	
64-bit Hardware Serial Number	Yes	
Watchdog 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 (TXD, RXD, RTS, CTS, GND)	
COM2	RS-485 (Data+, Data-) with internal self-tuner ASIC	
COM3	RS-232 (TXD, RXD, GND)	
COM4	RS-232 (TXD, RXD, GND)	
I/O Expansion		
I/O Type	X-board	
Digital Input		
Channels	2	
Dry Contact, ON Voltage Level	Close to GND	
Dry Contact, OFF Voltage Level	Open	
Digital Output		
Channels	2	
Type	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	+10 ~ +30 VDC	
Consumption	2.0 W	3.0 W

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Wiring Connections



Dimensions (Units: mm)



Right Side View | Front View | Back View

Ordering Information

I-7188XA CR	Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 4 Serial Ports, 2 DI, 2 DO and 1 I/O Bus (Blue Cover) (RoHS)
I-7188XA-G CR	Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 4 Serial Ports, 2 DI, 2 DO and 1 I/O Bus (Gray Cover) (RoHS)
I-7188XAD CR	Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 4 Serial Ports, 2 DI, 2 DO and 1 I/O Bus and 7-Segment LED Display (Blue Cover) (RoHS)
I-7188XAD-G CR	Standard Palm-sized Serial PAC with 80188-40 CPU, MiniOS7, 512 KB SRAM, 4 Serial Ports, 2 DI, 2 DO and 1 I/O Bus and 7-Segment LED Display (Gray Cover) (RoHS)

Accessories

X-Board	Add-on I/O Expansion Board

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000