



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

C language based uPAC controller

Programmable Logical controllers PLC have become the mainstream automation solution for many industries and applications, providing accurate, reliable, easily-modified control. In addition to discrete and process functions, controllers have evolved to perform complex tasks such as motion and data logging.

The I-7188 series can be used to replace PC or PLC devices in harsh environments. The I-7188 uPAC 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 controller, reducing 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 can be used as a single versatile controller.

https://www.icpdas-usa.com/micro_pac.html



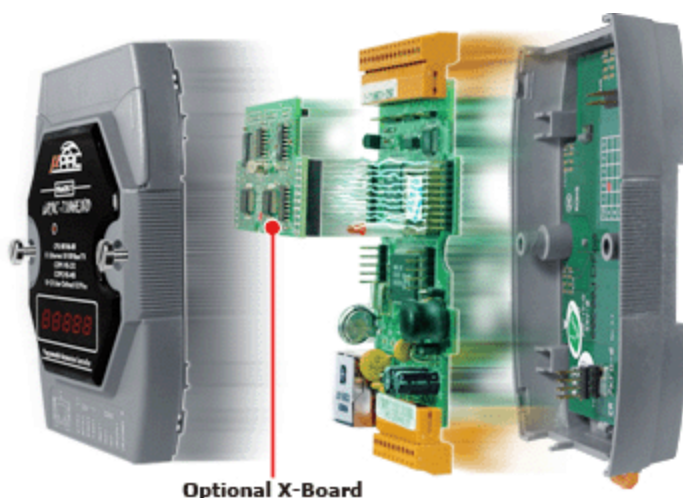
Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

I/O Expansion Bus and Expansion Board

The I-7188XA supports an I/O expansion bus.

The I/O expansion bus can be used to implement various I/O functions such as D/I, D/O, A/D, D/A, Timer/Counter, UART, flash memory, battery backup SRAM, AsicKey & other I/O functions. Nearly all kinds of I/O functions can be implemented by this bus. The integrated modular design of the expansion board allows a fast, easy, and flexible way of upgrading our controller's capability.



I-7188XA, I-7188XB, I-7188XC, I-7188EX, I-7188EG, I-7188XG and uPAC-7186EG support an I/O expansion bus. The I/O expansion bus can be used to implement various I/O functions such as D/I, D/O, A/D, D/A, Timer/Counter, UART, flash memory, battery backup SRAM, AsicKey & other I/O functions. Nearly all kinds of I/O functions can be implemented by this bus but the bus can support only one board. We have designed more than 54 boards for I-7188XA/XB/XC/EX/EG/XG and uPAC-7186EG, you can use one of them to expand the controller's features.

https://www.icpdas-usa.com/micro_pac.html



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

I-7188 series C language based uPAC (Serial Connectivity)

I-7188 is a palm-size PAC that equips a DOS-like OS (MiniOS7). Its software development toolkit is C language compilers that can build 16-bit executable file (*.exe) running on an 80188/80186 CPU. There are two free compilers ([Turbo C 2.0](#) and [Turbo C++ 1.01](#)), we suggest users to use the Turbo C++ 1.01.

By the multi-COM port feature, I-7188 can integrate serial devices (for example: barcode reader, card reader, HMI) and use the few onboard I/O points to implement embedded applications.

Model	Special Feature	CPU	SRAM	Flash	I/O Expansion Bus	64-bit hardware serial number	RTC	DI	DO	RS-232/RS-485
I-7188 I-7188D	-	40M Hz	256 KB	512 KB	-	Yes	Yes	-	-	1/1
I-7188XA I-7188XAD	-		For memory board only		2			2		
I-7188XB I-7188XBD	-		Yes		1			1		
I-7188XBD-CAN	CAN port		-							
I-7188XC I-7188XCD	-	20M Hz	128 KB		Yes	-	-	2	3	

If you have other industrial automation controller requirements or have questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102