



## Specifications

Models	I-7188(D)	I-7188XA(D)	I-7188XB(D)	I-7188XC(D)
<b>System Software</b>				
OS	MiniOS7 (DOS-like embedded operating system)			
Program Download Interface	RS-232 (COM4)		RS-232 (COM1)	
Programming Language	C language			
Compilers to create.exe Files	TC++ 1.01; TC 2.01; BC++3.1 ~ 5.2x; MSC 6.0; MSVC++ (before version 1.5.2)			
<b>CPU Module</b>				
CPU	80188, 40 MHz			80188, 20 MHz
SRAM	256 KB	512 KB		128 KB
Flash	512 KB			
EEPROM	2 KB			
NVRAM	31 Bytes (battery backup, data valid up to 10 years)			-
RTC (Real Time Clock)	Provides second, minute, hour, date, day of week, month, year			-
64-bit Hardware Serial Number	-	Yes		-
Watchdog Timers	Yes (0.8 second)			
<b>Communication Ports</b>				
COM 1	RS-232 with modem control or RS-485	RS-232 with modem control or RS-485 with internal self-tuner ASIC; non-isolated	RS-232 or RS-485 with internal self-tuner ASIC; non-isolated	
COM 2	RS-485, non-isolated	RS-485 with internal self-tuner ASIC; 3000 V <sub>DC</sub> isolated	RS-485 with internal self-tuner ASIC; non-isolated	
COM 3	RS-232 (TxD, RxD, GND)		-	
COM 4	RS-232 (TxD, RxD, GND)		-	
<b>LED Indicator</b>				
System LED	Yes			
LED Display	5-digit 7-segment LED display for (D) versions			
<b>Digital Input</b>				
Channels	-	2	1	2
Contact	Dry			
On Voltage Level	Connect to GND			
Off Voltage Level	Open			
<b>Digital Output</b>				
Channels	-	2	1	3
Type	Open Collector			
Load Current	100 mA/channel			
Load Voltage	+30 V <sub>DC</sub> Max.			
<b>Hardware Expansion</b>				
I/O Expansion Bus	-	Yes (for memory board only)	Yes	Yes
<b>Mechanical</b>				
Dimensions (W x L x H)	72 mm x 119 mm x 33 mm			
Installation	DIN-Rail or Wall Mounting			
<b>Environmental</b>				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)			
<b>Power</b>				
Input Range	+10 ~ +30 V <sub>DC</sub>			
Protection	Power reverse polarity protection			
Power Consumption	2 W; or 3 W for (D) version			

## Ordering Information

<b>I-7188/512 CR</b>	µPAC with 4 COM ports (RoHS)
<b>I-7188D/512 CR</b>	I-7188/512 CR with display
<b>I-7188XA CR</b>	µPAC with 4 COM ports and 2 DI, 2 DO (RoHS)
<b>I-7188XD CR</b>	I-7188XA CR with display
<b>I-7188XB-512 CR</b>	µPAC with 2 COM ports and 1 DI, 1 DO (RoHS)
<b>I-7188XB-512 CR</b>	I-7188XB-512 CR with display
<b>I-7188XC-512 CR</b>	µPAC with 2 COM ports and 2 DI, 3 DO (RoHS)
<b>I-7188XC-512 CR</b>	I-7188XC-512 CR with display