

# i-7188EA *Embedded Internet/Ethernet Controller*

## SERIES



### Ordering Information

■ **I-7188EA:**  
Embedded Internet/Ethernet Controller

■ **I-7188EAD:**  
I-7188EA with Display

#### Options

■ **PWR-24/110:**  
Wall-plug Power Adaptor/110VAC, 60Hz, 3.6W

■ **PWR-24/220:**  
Wall-plug Power Adaptor/220VAC, 50Hz, 3.6W

■ **PWR-24/230:**  
Wall-plug Power Adaptor/230VAC, 50Hz, 3.6W

### Introduction

Compared to I-7188EX, the I-7188EA adds seven open-collector output channels and six digital Input channels. I/O Expansion bus has been occupied by DI/O expansion board.

### Features

- AMD's 80188-40 embedded CPU
- 10BASE-T Ethernet Controller, NE2000 compatible
- 64-bit hardware unique serial number inside
- COM port: COM1, COM2
- Built-in RTC, NVRAM, EEPROM
- DI: 6 / DO: 7
- Built-in self-tuner ASIC chip
- Built-in MiniOS7
- TCP/IP
- Built-in RTC, NVRAM, EEPROM
- Program download port: COM1

### Specifications

#### of I-7188EA & I-7188EAD

- CPU: Am188™ ES, 40MHz
- SRAM: 512K bytes
- Flash Memory: 512K bytes
- NVSRAM: 31 bytes
- EEPROM: 2048 bytes
- Digital Input channels: 6  
Logic low level: 0V~1V  
Logic high level: 3.5V~30V
- Digital Output channels: 7  
Open collector to 30V Max.  
Output current: 100mA
- Real Time Colock
- COM1: RS-232
- COM2: RS-485
- Power requirement:  
10~30VDC (non-regulated)
- Power consumption:  
2.0W for I-7188EA;  
3.0W for I-7188EAD
- Dimensions: 123mm x 72mm x 33mm