



Programmable Ethernet to 3x serial ports converter

### Introduction

The I-7188EN series is a family of Programmable Device Servers, also known as "Serial-to-Ethernet gateway", that are designed for linking RS-232/422/485 devices to an Ethernet network. The user-friendly VxComm Driver/ Utility allows users to easily turn the built-in COM ports of the I-7188EN series into standard COM ports on a computer. By virtue of its protocol independence, a small-core OS and high flexibility, the I-7188EN series is able to meet the demands of every network-enabled application.

The I-7188EN series includes a powerful and reliable Xserver programming structure that allows you to design your robust Ethernet applications in one day. The built-in high-performance MiniOS7 boots the I-7188EN up in just one second and gives you the fastest responses.

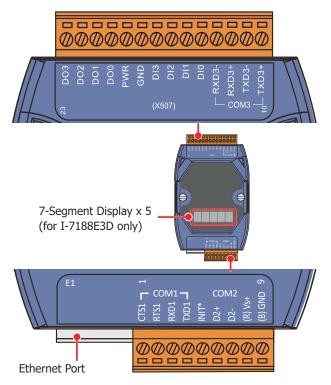
The I-7188E3(D) is equipped with 1 RS-232 port, 1 RS-422 port and 1 RS-485 port. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.

#### **Features**

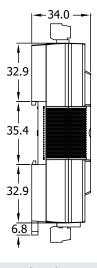
- Incorporates any RS-232/422/485 serial device in Ethernet
- Data transmission via Virtual COM or raw TCP connection
- VxComm Utility supports 32/64-bit Windows 7 SP1/10/2012/2016
- Built-in High-Performance MiniOS7 from ICP DAS
- Watchdog Timer suitable for use in harsh environments
- Palm-Sized with multiple Serial Ports
- Power Reverse Polarity Protection



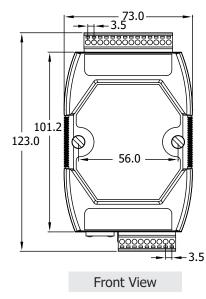
### Apparances

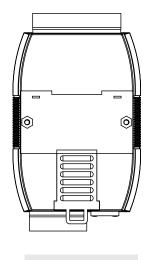


### Dimensions (Units: mm)



Left Side View





Rear View

# Specifications

| Models                  | I-7188E3   | I-7188E3D            |
|-------------------------|--|----------------------|
| CPU Module              |  |                      |
| CPU                     | 80188, 40MHz or compatible   |                      |
| SRAM                    | 384 KB   |                      |
| Flash                   | 512 KB   |                      |
| EEPROM                  | 2  | КВ                   |
| Watchdog Timer          | 0.8 s  | econd                |
| Communication Interface |  |                      |
| COM1                    | RS-232 (TXD, RXD, RTS, CTS, GND)                                     |                      |
| COM2                    | RS-485 (D+, D-)  |                      |
| COM3                    | RS-422 (TXD+, TXD-, RXD+, RXD-)                                      |                      |
| Ethernet Port           | 10BASE-T NE2000 compatible Ethernet Controller                       |                      |
| COM Port Format         | ·  |                      |
| Data Bit                | 7, 8   |                      |
| Parity                  | Even, Odd, None  |                      |
| Stop Bit                | 1  |                      |
| Baud Rate               | 115200 bps Max.  |                      |
| LED Indicator           |  |                      |
| 7-Segment Display       | -  | Yes                  |
| System LED Indicator    | Yes  |                      |
| Digital Input           |  |                      |
| Input Channels          | 4  |                      |
|                         | Wet: +3.5 V <sub>DC</sub> ~ +30 V <sub>DC</sub><br>Dry: Close to GND |                      |
| On Voltage Level        |  |                      |
| Off Voltage Level       | Wet: +1 VDC Max.   |                      |
| _                       | Dry: Open  |                      |
| Digital Output          |  | 4                    |
| Output Channels         | 4<br>Open cellector  |                      |
| Output Type             | Open-collector   |                      |
| Max Load Current        | 100 mA   |                      |
| Load Voltage            | +30 VDC Max.   |                      |
| Mechanical              | 1.2  |                      |
| Dimensions (W x L x H)  | 123 mm x 73 mm x 34 mm   |                      |
| Operating Environment   | 25.00  |                      |
| Operating Temperature   | -25 °C ~ +75 °C  |                      |
| Storage Temperature     | -40 °C ~ +80 °C  |                      |
| Humidity                | 5 ~ 95% RH, 1  | non-condensing       |
| Power                   | 2  | alavita, avata stian |
| Protection              | Power reverse polarity protection                                    |                      |
| Power requirement       | 10 ~ 30 Vpc  |                      |
| Power consumption       | 2 W 3 W  |                      |

# Ordering Information

| I-7188E3 CR  | Programmable Ethernet to 3x serial ports converter (1x RS-232, 1x RS-422 and 1x RS-485) (RoHS)   |
|--------------|--|
| I-7188E3D CR | Programmable Ethernet to 3x serial ports converter (1x RS-232, 1x RS-422 and 1x RS-485) with LED |
|              | display (RoHS)   |

# Accessories

| MDR-20-24 CR | Power Supply, 85~264 V <sub>AC</sub> to 24 V <sub>DC</sub> /1 A, 24 W, DIN-rail mounting (RoHS) |
|--------------|---|
| GPSU06U-6 CR | Power Supply, 110~240 Vac to 24 VDc/0.25 A, 6 W, two pins USA plug (RoHS)                       |