





I-7521(D)/I-7522(D)/I-7523(D)

Addressable RS-485 to RS-232/RS-485 Converter

■ Features

- Built-in "Addressable RS-232 Converter" Firmware
- Responses from RS-232 devices can be addressable
- Supports Dual-Watchdog Commands
- Supports Power-up Value and Safe Value for DO
- Supports Real-time Monitoring/Control for the Onboard DI/DO
- Includes a 1KB Queue Buffer for Each RS-232 Interface
- Watchdog Iimer Provides Fault Tolerance and Recovery
- Low Power Consumption
- R.O.C. Invention Patent No. 086674, No.103060, No. 132457
- 3000 V Isolation on the RS-485 Interface









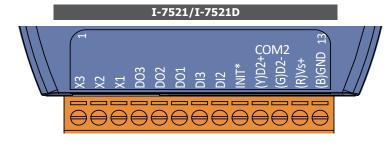
■ Introduction

Most RS-232 devices don't support device addressing. The ICPDAS I-752n series assigns a unique address to any RS-232 device installed on an RS-485 network. When the Host PC sends a command with a device address to the RS-485 network, the destination I-752n module will remove the address field, and then pass the other commands to its local RS-232 devices. The response from the local RS-232 devices will be returned to the Host PC via the I-752n module.

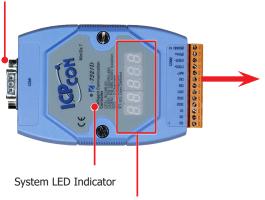
ICP DAS I-752n products are unique in that they are a Master-type converter that use our R.O.C. Patent 086674, while most other converters are a Slave-type, which cannot operate without a Host PC. In real industrial applications, many users are not satisfied with Slave-type converters as they cannot be adapted to individual requirements.

Appearances

RS-232/RS-485 (COM1)



I-7522/I-7522D



5 x Digit 7 Segment LED Display (for I-7521D, I-7522D and I-7523D only) ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2020.03 1/6

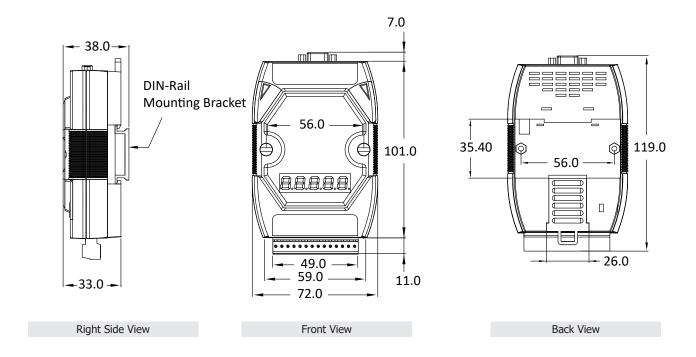
■ Specifications

| Model | I-7521 | I-7521D | I-7522 | I-7522D | I-7523 | I-7523D |
|--------------------------------|--|---------|--------|---------|-------------|--------------|
| Software | | | | | | |
| OS | MiniOS7 | | | | | |
| CPU Module | ı | | | | | |
| CPU | 80188 or compatible, 20 MHz | | | | | |
| SRAM | 128 KB | | | | | |
| Flash | 512 KB | | | | | |
| EEPROM | 2 KB | | | | | |
| Watchdog Timer | Yes | | | | | |
| Display | | | | | | |
| Digit 7 Segment LED Display | - | 5 | - | 5 | - | 5 |
| LED Indicator | ı | | | | | |
| Status | 1 x System | | | | | |
| Communication Port | | | | | | |
| Baud Rate | 115200 bps Max. | | | | | |
| COM1 | RS-232/RS-485 (RXD, TXD, RTS, CTS, GND for RS-232, Data+, Data- for RS-485 with self-tuner ASIC) | | | | | |
| COM2 | RS-485 (Data+, Data-) with internal self-tuner ASIC; 3000 VDC Isolation | | | | | |
| COM3 | - RS-232 (RXD, TXD, RTS, CTS, GND) | | | | | |
| COM4 | | | - | | RS-232 (RXI | D, TXD, GND) |
| Digital Input | | | | | | |
| Channels | 2 1 | | | | | 1 |
| Туре | Non-isolated | | | | | |
| Dry Contact, ON Voltage Level | Close to GND | | | | | |
| Dry Contact, OFF Voltage Level | Open | | | | | |
| Digital Output | · | | | | | |
| Channels | 3 | | 1 | | - | |
| Туре | Open Collector | | | | | |
| Load Voltage | +30 VDC Max. | | | | | |
| Max. Load Current | 100 mA | | | | | |
| Mechanical | 1 | | | | | |
| 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 2.0 W 3.0 W 2.0 W 3.0 W | | | | 3.0 W | |

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■ Dimensions (Units: mm)



■ Ordering Information

| I-7521 CR | Addressable RS-485 to RS-232/RS-485 Converter with 2 DI and 3 DO (Blue Cover) (RoHS) | |
|--------------|---|--|
| I-7521D CR | Addressable RS-485 to RS-232/RS-485 Converter with 2 DI, 3 DO and 7-Segment LED Display (Blue Cover) (RoHS) | |
| I-7521D-G CR | Addressable RS-485 to RS-232/RS-485 Converter with 2 DI, 3 DO and 7-Segment LED Display (Gray Cover) (RoHS) | |
| I-7522 CR | Addressable RS-485 to 2 x RS-232/RS-485 Converter with 2 DI and 1 DO (Blue Cover) (RoHS) | |
| I-7522D CR | Addressable RS-485 to 2 x RS-232/RS-485 Converter with 2 DI, 1 DO and 7-Segment LED Display (Blue Cover) (RoHS) | |
| I-7523 CR | Addressable RS-485 to 3 x RS-232/RS-485 Converter with 1 DI (Blue Cover) (RoHS) | |
| I-7523D CR | Addressable RS-485 to 3 x RS-232/RS-485 Converter with 1 DI and 7-Segment LED Display (Blue Cover) (RoHS) | |

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