

ISC-1112 / ISC-1112-I

Industrial RS-232 to RS-422/485 Serial Media Converter

- Support multiple baud rate and multiple data format
- Support highest power output
- Auto Hardware Direction Control for RS-485
- Auto switching baud rate from 300 ~ 115200 bps
- Power requirements from +9 ~ 30 VDC
- ABS with captive mounting hardware design
- DIN-Rail and wall mounting enabled



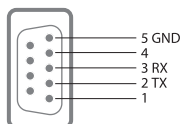
Introduction

ISC-1112 series are industrial media converters provide media conversion between RS-232 and RS-422/485 interface. ISC-1112 series are ABS housing design and supporting an operating temperature of -10 to 70°C. The RS-485 control is completely transparent to the user and software written for half-duplex operation without any modification. ISC-1112-I opto-isolators provide 3000VDC of isolation to protect the host computer from destructive voltage spikes. Therefore, the ISC-1112 series is reliable serial media converter and can satisfy most demand of operating environment.



Connections of Serial Media Converter

Pin Assignment

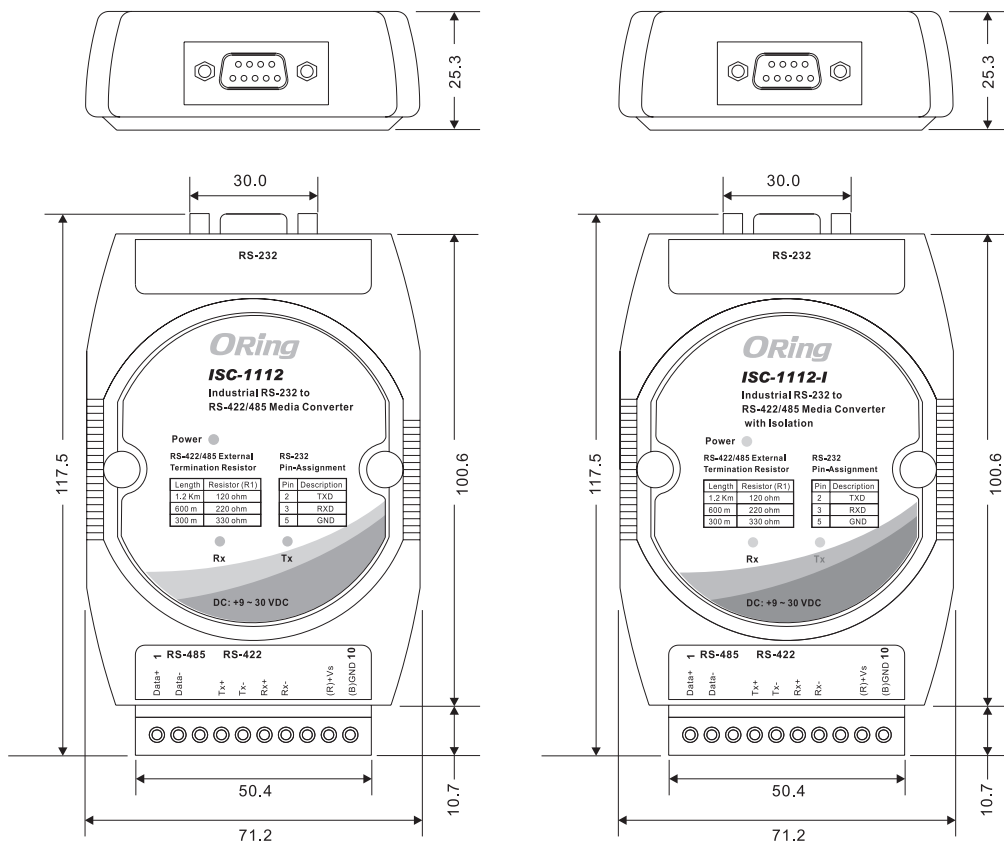


RS-232 in DB9 Female

| RS-422/485 Terminal Block Pin Assignment | | | | | | | | | | |
|--|--------|-------|----------|--------|-----|-----|-----|----------|-------------|-----|
| Interface | RS-485 | | Reserved | RS-422 | | | | Reserved | Power Input | |
| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Info | Data+ | Data- | N.C. | TX+ | TX- | RX+ | RX- | N.C. | V+ | GND |

Industrial Ethernet Switch
 Industrial Media Converter
 Industrial Device Server
 Industrial Wireless Access Point
 Industrial Cellular VPN Router
 Industrial M2M Gateway
 Accessories
 Network Management Software

Dimensions



(Unit=mm)

Specifications

| ORing Media Converter Model | ISC-1112-I | ISC-1112 |
|-----------------------------|---|----------|
| Physical Ports | | |
| RS-232 Connector | DB9 (Female) | |
| RS-422/485 Connector | 10-pin terminal block | |
| RS-232 Signals | TX, RX, GND | |
| RS-422/485 Signals | RS-422 : TX+, TX-, RX+, RX- RS-485 : Data+, Data- | |
| Baud Rate | 300 to 115.2Kbps | |
| Data bit | 5, 6, 7, 8 | |
| Stop bit | 1, 1.5, 2 | |
| Parity | None, Even, Odd, Space, Mark | |
| Flow Control | XON/XOFF (software) Auto Hardware Direction Control for RS-485 | |
| Serial Isolation | 3000VDC | - |
| LED Indicators | | |
| Power Indicator | Green : Power LED x 1 | |
| TxD Indicator | Green LED x 1 | |

| | | |
|---------------------------------|--|------|
| RxD Indicator | Red LED x 1 | |
| Power | | |
| Input Power | +9 ~ 30 VDC power inputs on 10-pin terminal block | |
| Power Consumption (Typ.) | 2.2 Watts | |
| Physical Characteristics | | |
| Enclosure | IP-30 | |
| Dimensions (W x D x H) | 71.2(W) x 25.3(D) x 100.6(H) mm (2.8x1x3.96 inch.) | |
| Weight (g) | 130g | 133g |
| Environmental | | |
| Storage Temperature | -25 to 85°C (-13 to 185°F) | |
| Operating Temperature | -10 to 70°C (14 to 158°F) | |
| Operating Humidity | 5% to 95% Non-condensing | |
| Regulatory Approvals | | |
| EMI | FCC Part 15, CISPR (EN55022) class A | |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 | |
| Shock | IEC60068-2-27 | |
| Free Fall | IEC60068-2-32 | |
| Vibration | IEC60068-2-6 | |
| Warranty | 2 years | |

Ordering Information

ISC-**A****B****C****D****E**-**F**

| Code Definition | Serial port Number | Port Type | Converter Prot Number | Converter Type | Other Type | Additional Function |
|-----------------|--------------------|---|-----------------------|--|---|------------------------|
| Option | - 1 : 1port | - 1 : RS-232 - 2 : RS-422/485 - 3 : RS-232/422/485 | - 1 : 1port | - 0 : other type - 1 : RS-232 - 2 : RS-422/485 - 3 : RS-232/422/485 | - F : 100Base-FX Fiber - U : USB | - I : Isolation |

| | Model Name | Description |
|---------------------|--|---|
| Available Model | ISC-1112-I | Industrial 1-port RS-232 to 1-port RS-422/485 serial media converter with 3KV isolation |
| | ISC-1112 | Industrial 1-port RS-232 to 1-port RS-422/485 serial media converter |
| Packing List | Optional Accessories (Can be purchased separately) <ul style="list-style-type: none"> • ISC-1112/112-I • DIN-Rail Kit • Wall-Mount Kit • Quick Installation Guide | |