## **ISD-1100-T/1200-T Series**



### Introduction

The ISD-1100-T/1200-T series provides surge protection for serial data lines to prevent damage to devices such as modems, fax machines, I/O ports, terminals, instrumentation, hubs, and any other devices that use

## : Specifications

#### **Data Line Surge Protection**

**Maximum Power Protection:** ISD-1110-T/1130-T: 400 watts ISD-1210-T/1230-T: 5000 watts Number of Protected Lines: ISD-1110-T: 7 ISD-1130-T/1210-T/1230-T: 4 Surge Capacity: ISD-1110-T/1130-T: 4 kV, 8/20 µs impulse per line ISD-1210-T/1230-T: 20 kV, 8/20 µs impulse per line Working Voltage: ISD-1110-T/1210-T: 15 V ISD-1130-T/1230-T: 5 V Maximum Load Current: ISD-1110-T: 0.1 A (23°C). 0.05 A (85°C) ISD-1130-T: 0.12 A (23°C), 0.07 A (85°C) ISD-1210-T/1230-T: 0.4 A (20°C), 0.13 A (85°C) Response Time: < 1 ns Protection Mode: Line to line, line to ground Protection Rating: IP30 Bandwidth: 10 MHz loss < 1 dB **Connectors** ISD-1110-T: Data in: DB9 male Data out: DB9 female ISD-1130-T· Data in: Terminal block

Data out: Terminal block ISD-1210-T/1230-T: Data in: Terminal block Data out: Terminal block

#### Physical Characteristics Housing:

ISD-1110-T/1130-T: Plastic ISD-1210-T/1230-T: Metal

# serial data connections. The ISD-1100-T/1200-T can add serial data line protection to a variety of serial connections: RS-232, RS-422, and RS-485.

#### Dimensions:

ISD-1110-T: 53 x 37 x 20.6 mm (2.01 x 1.46 x 0.81 in) ISD-1130-T: 53 x 37 x 20.6 mm (2.01 x 1.46 x 0.81 in) ISD-1210-T: 95 x 53 x 25 mm (3.74 x 2.01 x 0.98 in) ISD-1230-T: 95 x 53 x 25 mm (3.74 x 2.01 x 0.98 in) Weight: Product only ISD-1110-T: 58 g (0.13 lb) ISD-1130-T: 30 g (0.07 lb) ISD-1210-T: 214 g (0.47 lb) ISD-1230-T: 212 g (0.46 lb) Packaged ISD-1110-T: 119 g (0.26 lb) ISD-1130-T: 96 g (0.21 lb) ISD-1210-T: 276 g (0.61 lb) ISD-1230-T: 274 g (0.60 lb) **Environmental Limits** Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes. Operating Temperature: -40 to 85°C (-40 to 185°F) Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 95% max, non-condensing Standards and Certifications

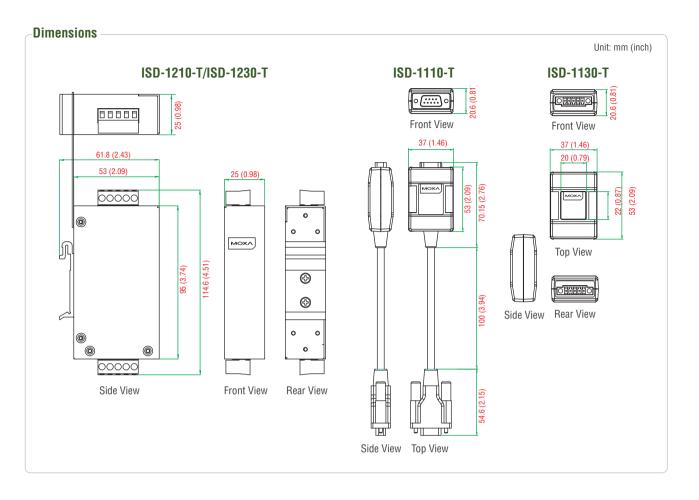
## Standards and Certifications

ISD-1110-T/1130-T: EN 61000-4-5 (Surge): Signal: 4 kV ISD-1210-T/1230-T: IEC 61643-21 C2 (20 kV 1.2/50, 10 kA 8/20)

#### Warranty and RMA Policy

Warranty Period: 5 years (limited to 1-time use) Warranty Details: See www.moxa.com/warranty Note: ISD products will only be repaired once within 5 years of purchase. After the first repair, the product's warranty will no longer be valid. RMA Policy: Moxa does not provide RMA service for ISD products whose PCB board was destroyed by a surge. Note: Be sure to purchase the ISD product with maximum surge protection

Note: Be sure to purchase the ISD product with maximum surge protection suitable for your environment.



## **Crdering Information**

#### **Available Models**

**ISD-1110-T:** 7 data line entry surge protector, RS-232, 4 kV surge protection, -40 to 85°C operating temperature

**ISD-1130-T:** 4 data line entry surge protector, RS-422/485, 4 kV surge protection, -40 to 85°C operating temperature

**ISD-1210-T:** 4 data line advanced surge protector, RS-232, 20 kV surge protection, -40 to 85°C operating temperature

**ISD-1230-T**: 4 data line advanced surge protector, RS-422/485, 20 kV surge protection, -40 to 85°C operating temperature

#### Package Checklist -

- 1 surge protector
- Hardware installation guide (printed)
- Warranty card

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