ST-IO

8 Relay and 4 Digital/Analog Input Module

The ST-IO is a Cresnet® expansion module that provides eight low-voltage relay outputs and four digital/analog input ports. Typical applications include control of lighting, screens, drapes, and more. In "closure" mode, each input port will sense a contact closure signal from a door switch, motion sensor, etc., and can also accept analog 0-24 Volt DC signals when in "voltage" mode. The ST-IO may be used to provide a low-voltage control interface at a remote location, or may be rack mounted in the central equipment cabinet to expand the number of control system ports (ST-RMK rack mount kit sold separately). Communication with the control system is via a single Cresnet connection.

SPECIFICATIONS

Connectors
RELAY OUTPUT 1 - 8: (1) 16-pin 5mm detachable terminal block comprising (8) normally open, isolated relays;
Rated 1 Amp, 30 Volts AC/DC maximum; 100µA, 100mV minimum
DIGITAL IN 1 - 4: (1) 5-pin 5mm detachable terminal block comprising (4) digital or analog input ports (referenced to GND);
Digital Input (closure mode): Input threshold 2 Volts DC (±0.5VDC); input impedance 1k ohms to +5VDC; 5 Volt, 1k ohms pull-up resistor and protection diode per pin;
Analog Input (voltage mode): Input threshold 2 Volts DC (±0.5VDC); voltage range 0-24 Volts DC; input impedance 44k ohms
NET: (2) 6-pin RJ11 female, Cresnet slave ports, paralleled;
Connect to Cresnet control network
12VDC: (1) 2.5mm barrel DC power jack;
12 Volt DC power input (PW-1205 power pack included)

Indicators
PWR: (1) green LED, indicates power supplied from Cresnet network or local power pack
NET: (1) amber LED, indicates communication with Cresnet system
INPUT 1 - 4: (4) red LEDs, indicate a high signal at each corresponding digital input port
RELAY 1 - 8: (4) red LEDs, indicate a closure at each corresponding relay output port

Power Requirements
Power Pack: 0.5 Amp @ 12 Volts DC;
120 Volts AC, 60 Hz power pack, model PW-1205, included
Cresnet Power Usage: 6 Watts (0.25 Amp @ 24 Volts DC) with no power pack connected

Environmental
Temperature: 41° to 113°F (5° to 45°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure
Chassis: Metal, black finish
Faceplate: Extruded aluminum, black finish with polycarbonate label overlay
Mounting: Freestanding or 1U 1/2-width 19-inch rack-mountable (adhesive feet included, ST-RMK rack kit sold separately)

Dimensions
Height: 1.80 in (46 mm);
1.70 in (44 mm) without feet
Width: 7.07 in (180 mm)
Depth: 6.32 in (161 mm)

Weight
1.96 lb (0.89 kg)

INTERNATIONAL VERSION (230 VAC)
STI-IO
All the features and specifications of the ST-IO except:

Power Requirements
Power Pack: 0.5 Amp @ 12 Volts DC;
230 Volts AC, 50 Hz power pack, model PWI-1215, included
Cresnet Power Usage: 6 Watts (0.25 Amp @ 24 Volts DC) with no power pack connected

Available Models
ST-IO: Cresnet Module with 8 Relays and 4 Analog/Digital Inputs.
STI-IO: Cresnet Module with 8 Relays and 4 Analog/Digital Inputs - International Version, 230V.

Included Accessories
PW-1205 Power Pack, Wall, 12VDC, 0.5A, 120VAC [Included Quantity for ST-IO: 1]
PWI-1215 Power Pack, Desktop, 12VDC, 1.5A, 230VAC [Included Quantity for STI-IO: 1]

Available Accessories
ST-RMK: Rack Mount Kit
CNRJ11: 4 Wire to RJ11 Cresnet Converter

CRESTRON®

CRESNET-NP-BK-B500: Cresnet® Control Cable, non-plenum, black, 500 ft box
CRESNET-NP-OR-B500: Cresnet® Control Cable, non-plenum, orange, 500 ft box
CRESNET-NP-TL-B250: Cresnet® Control Cable, non-plenum, teal, 250 ft box
CRESNET-NP-TL-B500: Cresnet® Control Cable, non-plenum, teal, 500 ft box
CRESNET-NP-TL-SP500: Cresnet® Control Cable, non-plenum, teal, 500 ft spool
CRESNET-NP-TL-SP1000: Cresnet® Control Cable, non-plenum, teal, 1000 ft spool
CRESNET-NP-YL-B500: Cresnet® Control Cable, non-plenum, yellow, 500 ft box
CRESNET-P-BK-SP500: Cresnet® Control Cable, plenum, black, 500 ft spool
CRESNET-P-OR-SP500: Cresnet® Control Cable, plenum, orange, 500 ft spool
CRESNET-P-TL-SP500: Cresnet® Control Cable, plenum, teal, 500 ft spool
CRESNET-P-TL-SP1000: Cresnet® Control Cable, plenum, teal, 1000 ft spool
CRESNET-P-YL-SP500: Cresnet® Control Cable, plenum, yellow, 500 ft spool
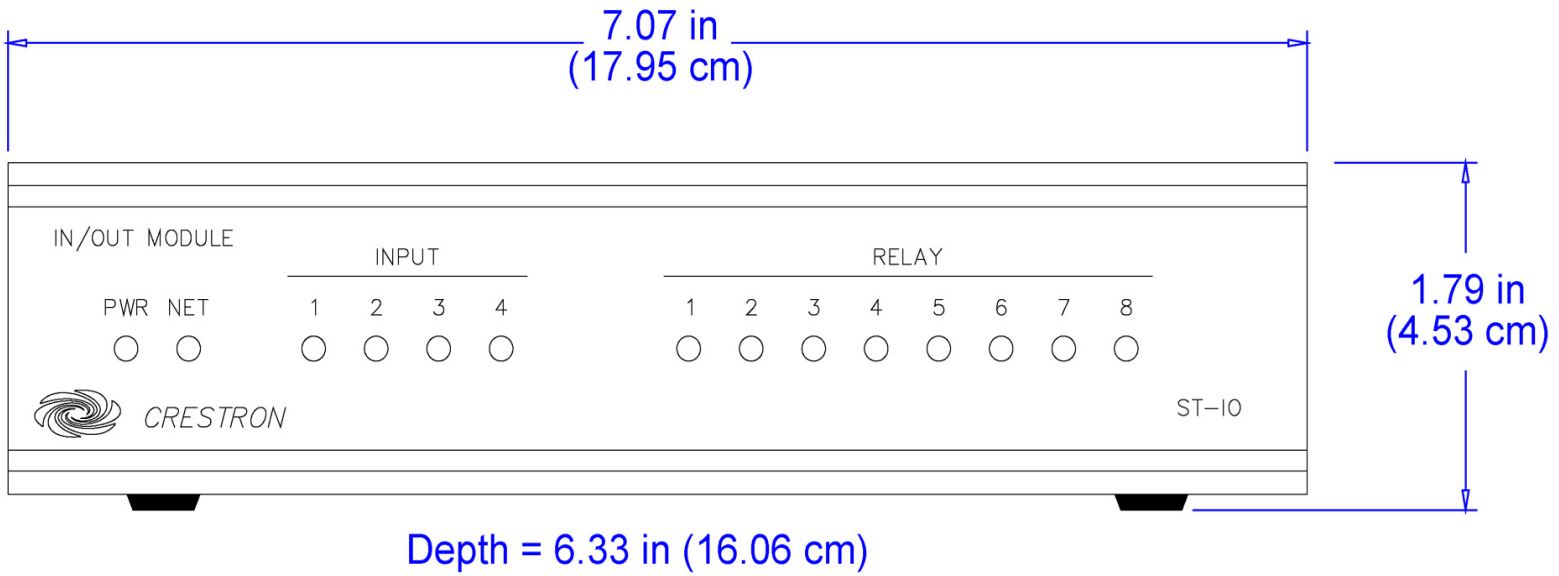**CRESNET-HP-NP-TL-SP500:** Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool
CRESNET-HP-NP-TL-SP1000: Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool

Front

7.07 in
(17.95 cm)

1.79 in
(4.53 cm)

IN/OUT MODULE

INPUT

RELAY

PWR NET

1   2   3   4

1   2   3   4   5   6   7   8

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ST-IO

Depth = 6.33 in (16.06 cm)

Back

12VDC
.5A

NET   NET

DIGITAL IN
1 2 3 4 G

RELAY OUTPUT
1   2   3   4   5   6   7   8

CE

CRESTRON ELECTRONICS INC. N.J. 07626