CN-TVAV

TV/AV Control Module

The CN-TVAV is a Cresnet expansion module that provides multiple types of control ports for interface to a wide range of video monitors, televisions, projectors, and other AV devices. A single IR port provides for control of any IR controlled device through a small stick-on IR emitter probe (included), and can also support 1-way serial protocols. The COM port provides a full featured bidirectional RS-232 control interface. A current sensor is built into the CN-TVAV to provide confirmation of a device's power on/off state. Four Versiport I/O ports support connections from external contact closure-based motion sensors, current sensors, etc., and can also function as low-current solid-state relays and sense analog 0-10 Volt DC signals.

The CN-TVAV is powered by its own built-in power supply. It is ideal wherever a remote IR/RS-232 control interface is required, and may be rack mounted using the optional ST-RMK rack mount kit (sold separately). Communication with the control system is via a single Cresnet connection.

SPECIFICATIONS

Connectors

POWER OUT: (1) 3-prong grounded AC socket;
Sensed AC power outlet;
Fixed sensitivity intended for a typical television/monitor;
Maximum Load: 6 Amps (700 Watts) at 120 Volts AC
IR: (1) 3.5mm mini phone jack female, IR/Serial output port;
Connects to STIRP IR probe (included);
IR output up to 1.2 MHz;
1-way serial TTL/RS-232 (0-5 Volts) up to 115.2k baud;
Expandable via ST-SPL to control multiple disparate IR devices
I/O 1 - 4: (1) 5-pin 3.5mm detachable terminal block comprising (4) digital input/output or analog input ports (referenced to GND);
Digital Input: Rated for 0-24 Volts DC, input impedance 20k ohms, logic threshold 1.24 Volts DC;
Digital Output: 250 mA sink from maximum 24 Volts DC, catch diodes for use with "real world" loads;
Analog Input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum, input impedance 20k ohms;
Programmable 5 Volts, 2k ohms pull-up resistor per pin
RS-232: (1) 6-pin RJ11 female, bidirectional RS-232 com port;
Up to 115.2K baud; hardware and software handshaking support
CRESNET: (1) 6-pin RJ11 female, Cresnet slave port;
Connects to Cresnet control network
POWER IN: (1) 6 ft (1.83m) cable with grounded AC plug;
Connects to 120 Volt AC power source

IR Receiver

IR Reception Frequency: 455kHz
IR Reception Angle: ~30° from center

LED Indicators

PWR: (green) Indicates power supplied from 120V AC power source
NET: (yellow) Indicates communication with Cresnet system
INPUT-OUTPUT (1-4): (4 red) Indicate input or output signals at I/O ports 1-4
TV/AV PWR: (green) Indicates load connected to AC power outlet is "on"
TV/AV IR: (red) Indicates transmission of data on IR port

RS-232 RXD: (red) Indicates reception of serial data at RS-232 port
RS-232 TXD: (red) Indicates transmission of serial data on RS-232 port
IR IN: (red) Indicates reception of a valid IR signal

Power Requirements

Main Power : 0.6 Amps, 120 Volts AC @ 60 Hz;
Plus connected device load up to 6 Amps additional
Cresnet Power Usage: none

Environmental

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

Enclosure

Chassis: Steel, black matte powder coat finish
Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay
Mounting: Freestanding or 0.5U 19-inch rack-mountable (adhesive feet included, ST-RMK rack kit sold separately)

Dimensions

Height: 1.80 in (4.57 cm);
1.70 in (4.32 cm) without feet
Width: 7.07 in (17.95 cm)
Depth: 6.32 in (16.06 cm)

Weight

3.63 lb (1.65 kg)

Available Models

CN-TVAV: TV/AV Controller Module

Included Accessories

CRESTRON

STIRP IR Emitter Probe [Included Quantity: 1]

Available Accessories

CNRJ11: 4 Wire to RJ11 Cresnet Converter
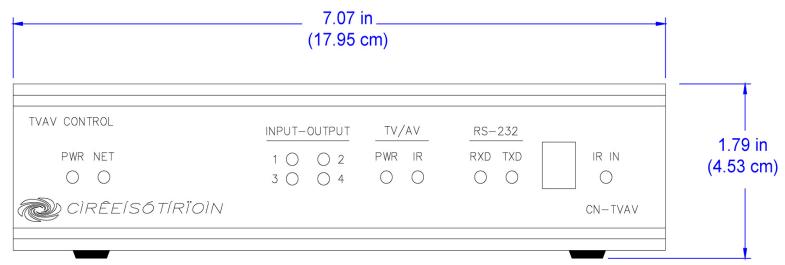**ST-MB:** Master Blaster™ IR Sprayer
ST-RMK: Rack Mount Kit
ST-SPL: IR Splitter
STCP-501: Serial Adapter Cable
STIRP: IR Emitter Probe

7.07 in
(17.95 cm)

1.79 in
(4.53 cm)

TVAV CONTROL

PWR NET

INPUT—OUTPUT   TV/AV   RS-232

1 ◯   ◯ 2   PWR   IR   RXD   TXD   IR IN
3 ◯   ◯ 4   ◯   ◯   ◯   ◯   ◯

CÌRÊEÍSÓTÍRÏOÌN   CN—TVAV

Depth = 6.33 in (16.06 cm)

CRESNET RS-232   POWER OUT 6A MAX

I/O   POWER IN
1 2 3 4 G   IR

CRESTRON ELECTRONICS INC. ROCKLEIGH, N.J. 07647 USA   115 VAC
                                                          50—60HZ
                                                          6.6A MAX