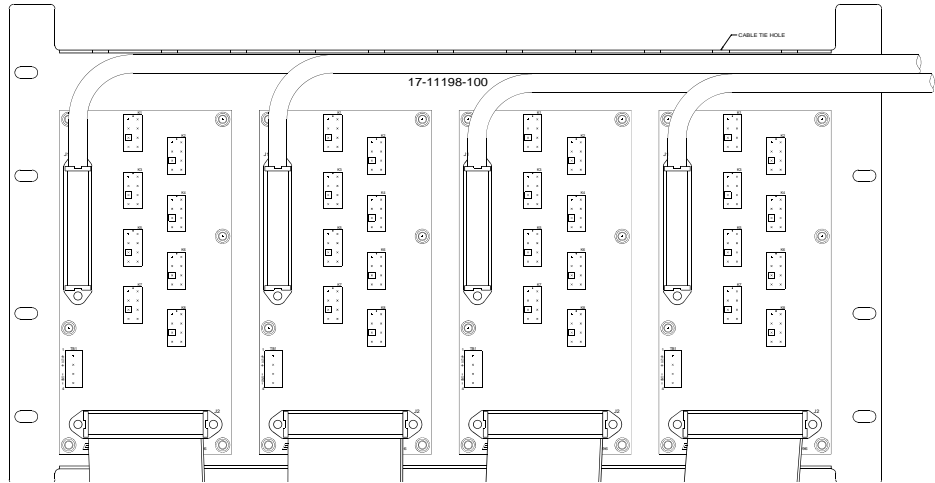




## RYB-8 Relay Board for MCN™ Monitoring and Control Systems



**Four RYB-8 Boards  
Mounted to Rear of 19" Rack Mount Panel**

### Introduction

The RYB-8 Relay Board provides dry-closure outputs when driven by CIB, IIB, or IOB modules. Up to four RYB-8 Relay Boards can be mounted to the rear of the optional EIA 19" Rack Panel

### Features

- (8) DPDT (Form C) Relays, configured to switch circuit pairs.
- Relays are sealed, hi-reliability, rated for low-level (dry circuit) audio switching, up to 2A.
- Selectable 600 Ohm terminations for Normally Open, Normally Closed, or Common circuits (may be de-selected).
- LEDs indicate active relays.
- Control Connector (relay coil inputs) is pin-compatible with the MCN CIB, IIB, and IOB modules.
- Jumpers to control adjacent relays.
- Jumpers for Sub-Category strapping for MCNRCD variable status text messages.

### Power Supply Options

Power Supply options normally mount to the front of the optional EIA 19" Rack panel. The following figure shows the Hot-Standby Power Supply Option. This option includes redundant power supplies and the Power Distribution Board for monitoring and switching the supplies.

### Part Numbers

Part Number	Description
S2-60694	MCN RYB-8 Relay Board Std Jumpering (Terminations unselected)
S2-60645	Cable Assy, IOB/CIB/IIB to RYB-8, 50 Conductor Ribbon Male to Male, 1' Length
S2-60646	RYB-8 Rack Panel for 4 Boards without Power Supply. 19" rack mount, 6 RUs (10.5") high
S2-61117	RYB-8 Rack Panel for 4 Boards with single Power Supply. 19" rack mount, 6 RUs (10.5") high
S2-61390	RYB-8 Rack Panel for 4 Boards with Hot-Standby Power Supply Option. 19" rack mount, 6 RUs (10.5") high

### CTI Products, Inc.

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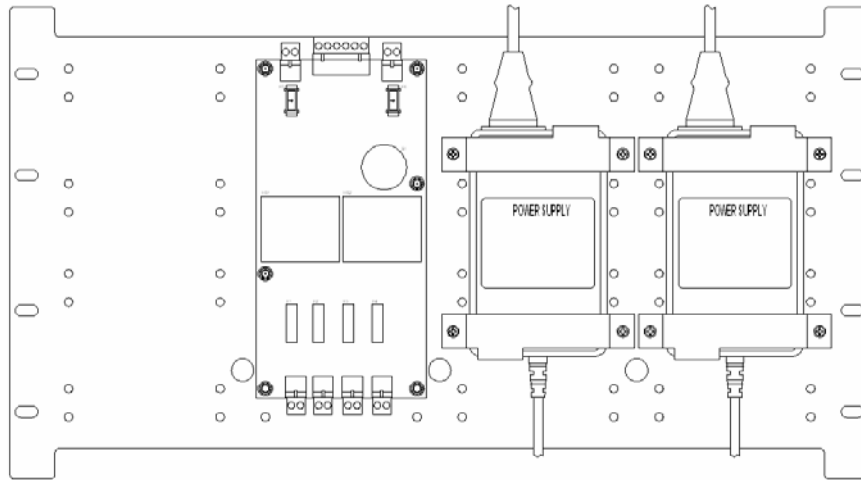
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CA-80718-100

**Hot-Standy Power Supply Option  
Mounted to Front of 19" Rack Mount Panel**

**RYP-8 Relay Board Specifications**

(See Manual for additional specs)

Relay Circuits	8, DPDT (Dual Form C), Sealed, MIL-R
Relay Contact Rating and Life Expectancy	0.5A @ 28VDC Resistive 500k Ops 160mA @ 28VDC Lamp 10k Ops 30uA @ 50mVDC Low Level 1M Ops
Relay Coil Load	Active low 88 mA max. @12VDC 110 mA max. @15VDC
Operate & Release Time	4.0 ms max. with 12 VDC supply and contact load of 10 mA @ 6VDC
Supply Voltage	12VDC Nominal (10-15VDC)
Supply Current (all 8 relays activated)	704 mA max. @12VDC 880 mA max. @15VDC
Relay Control (Input) & Contact (Output) Connectors	50-pin Female Micro-ribbon AMP connector (TELCO 25-pair style)
Optional Telephone Line Terminations	620 Ohm 1/4 W 5%
Power Connector:	4-pin screw terminal strip, accepts #24 to #14 AWG wire.
Fuse	AGC 1A
Temperature Rating	-25 to +65 Degrees C
Size	7.5"H x 3.75"W x 2.5"D

**Power Supply Specifications**

Input Voltage	100-240VAC, 47-63 Hz
Output Voltage	12VDC
Output Power	50W

**Power Distribution Board Specifications**

(For Hot-Standby Power Supply Option Only)

Power Source Inputs	2, 12VDC Nominal, Individually fused at 4A, Screw Terminal connections
Power Source Outputs	4, 12VDC, Individually fused at 1A, Screw Terminal connections
Visual Status Indicators	2, Green LEDs for Input OK 2, Red LEDs for Input Fail 4, Green LEDs for Output OK 4, Red LEDs for Output Fail
Audible Indicator	Activates for any blown fuse, can be disabled.
Logic Status Indicators	3, Driven from Solid State Relays Contact Rating: 60VDC, 0.5A Screw Terminal connections
Size	7.5"H x 3.75"W x 2.0"D