

2500-RIO-B

RS-485 Remote Base Controller



Description

The 2500-RIO-B RS-485 Remote Base Controller (RBC) allows a CTI 2500 Series or Simatic® 505 I/O base to function as a slave node on an RS-485 TI Remote I/O channel. The 2500-RIO-B is intended to be a replacement for the CTI 2500-RIO, 2500-RIO-A and Siemens® 505-6851, 505-6851-A, and 505-6851-B RBC. When used with a 2500-R11-A base, two 2500-RIO-B controllers can be used in a base in order to have dual media and hardware redundancy.

Features

- Replaces CTI 2500-RIO, 2500-RIO-A and Siemens® 505-6851, 505-6851-A, 505-6851-B
- Compatible with CTI 2500 Series® and Siemens® SIMATIC® 505 CPUs
- Can be used in all 4, 8, 11 and 16 slot CTI and Siemens® bases
- Compatible with 2500-R11-A and 505-6511 redundant bases
- Communication to CPU at 2Mbit/second
- Maximum cable distance from CPU to RBC 1000m
- Supports all CTI and Siemens® discrete, analog, and special function I/O modules
- LED display for error codes and station address
- Includes RS232C port for remote programming of PLC

Specifications

Ports:

- RS485:** 9-pin female
- RS232C:** 9-pin male

Communication Rate: 1 Mbits/sec

Communication Port Isolation: 1500VDC

Status Display:

Determines state of outputs when I/O channel communication is lost:

- off all outputs are turned off
- freeze all outputs hold their last value

Switch Options:

- RBC station address
- Serial port baud rate

Backplane Power: 2 Watts (Maximum)

Module Size: Double Wide

Operating Temperature

0-60°C (-40 – 85°F)

Storage Temp

-40 to 85°C (-40 to 185° F)

Relative Humidity

5% to 95% non-condensing

Agency Approvals (pending)

UL, UL-C, CE
Class 1 Div 2

Shipping Weight

1.5 lb. (0.68 Kg)

IMPORTANT NOTE FOR REDUNDANCY APPLICATIONS: When installing redundant remote base controllers in a 2500-R11-A rack, CTI 2500-RIO-B modules cannot be combined with Siemens® 505-6851A or 505-6851B RBC modules.

For more information about remote base redundancy, consult the following manuals*:

- 2500 Series System Redundancy Application Guide
- 2500-RIO-B Installation and Operation Guide

* Available on the Control Technology Website
www.controltechnology.com



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2500 Series[®] PLC System

Product Bulletin