



2500C-RBC-PRF Profibus DP Remote Base Controller



DESCRIPTION

The 2500C-RBC-PRF Profibus Remote Base Controller allows a CTI 2500C Compact I/O base to function as a slave node on a Profibus DP I/O channel that complies with the PROFIBUS standard.

FEATURES

- Compatible with CTI 2500 Series, Simatic® 505, Siemens® S5® and S7®, as well as other Profibus masters
- Can be used in all 4, 8, and 16 slot 2500C Compact Chassis
- Supports Profibus communication speeds from 9600 baud (max cable distance per segment: 1200m) up to 12 Mbaud (max cable distance per segment: 100m)
- GSD file is provided with the RBC to allow configuration by the Profibus Configurator

2500C-RBC-PRF Default Shipment Settings

Slave Address	0 (User must set Address)
Output State Selection JP1	Freeze

- LED display for error codes and station address

Specifications		
Ports	Profibus	USB
Ports	9 Pin Female	USB Port
Profibus Baud Rates	9600, 19.2K, 93.75K, 187.5K, 500K, 1.5M, 3.0M, 6.0M, 12M	
Profibus Port Isolation	1500VDC	

Output State Selection		
Determines state of outputs when Profibus IO channel is lost:	OFF All outputs are turned off	FREEZE All outputs hold their last value

RBC Configuration & Diagnostic Data	
Dipswitch Settings	RBC Station Address
Software-Set Parameters	Discrete I/O Interval Word I/O Update Factor Ignore Mismatch Mode
Diagnostic Data	Station Status (3 bytes) Master Address (1 byte) Ident Number (1 byte) Extended Diagnostics (9 bytes)

General Module Specifications	
ESD Protection	IEC 1000-4-2 Level 4
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (non-condensing)
Agency Approvals Pending	UL, ULC, UL Class 1, Div 2, CE
Shipping Dimensions and Weight	223.84mm x 109.86mm x 80.96mm, 0.384kg

IMPORTANT NOTE: When configuring a Compact I/O Profibus base on CTI 2500 Series® or Simatic®/ TI 505 PLCs, you must use PLC Workshop for 505, version 4.32 or higher. Be sure to download and use the latest Compact I/O Profibus gsd file from the CTI website.



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2500 Series™ Compact System



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