2500 Series® Bases

Classic

2500P-R4 *Four-Slot Base with High-Speed Channel*
2500P-R8 *Eight-Slot Base with High-Speed Channel*
2500-R11-A *Eleven-Slot Redundant Base*
2500P-R16 *Sixteen-Slot Base with High-Speed Channel*

2500P-R16

Description

The 2500 Series® bases provide four, eight, eleven, or sixteen slots for I/O modules in the CTI 2500 Series® or SIMATIC® 505 platform. The 2500-R11-A allows two power supplies and two RBCs in a redundant configuration. All other bases provide space for a single power supply, and a CPU or RBC, and can be mounted from the front or rear. New 2500P bases include the new CTI high-speed communications channel for future installation of Advanced Function Modules.

Features

- Replaces Siemens® 505-6504, 505-6508, 505-6511, or 505-6516

- Four, eight, eleven or sixteen I/O slots

- Mounts from the front or rear

- 2500-R11-A allows use of two power supplies and two RBCs in a redundant configuration

- High-speed lower backplane for communication with Advanced Function Modules (2500P bases only)

- Embedded client/server protocols perform data transfer based on configuration tables without the need for any additional logic in the PLC or 2500P-ACP1 application program.

- High-speed data transfer and RTC time synchronization with CTI controllers..

Specifications

Mounting

Front or rear mounting

Size and Shipping Weight

2500P-R4
8.02"W x 8.0"D x 10.47"H
204mm W x 203mm D x 266mm H
5.0 lb (2.27 kg)

2500P-R8
11.22"W x 8.0"D x 10.47"H
285mm W x 203mm D x 266mm H
8.0 lb (3.63 kg)

2500-R11-A / 2500P-R16
17.62"W x 8.0"D x 10.47"H
448mm W x 203mm D x 266mm H
14.0 lb (6.35 kg)

Additional Product Information:

On CTI's Website you will find links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance .

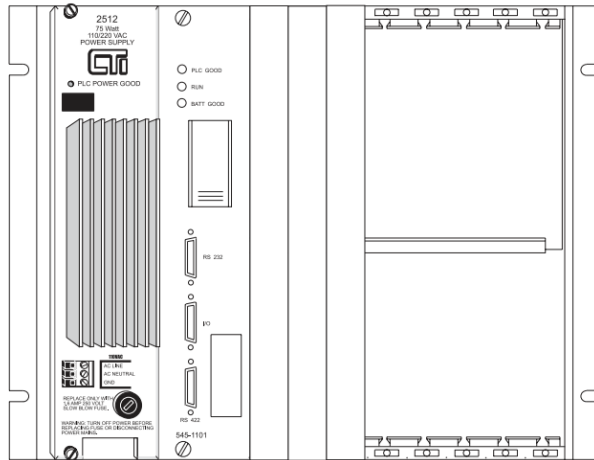**ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.**

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Power Supply, CPU/RBC, and I/O Location in Base

The power supply must always be installed in the left most slot of the base. To the right of the power supply is a slot for a CPU or RBC. The remaining 4, 8 (shown below) or 16 slots are for I/O or communication modules. When using a 2500-R11-A, power supplies are located in the left-most two slots. RBCs are located in the next two slots, followed by up to 11 I/O modules.

WARNING:

Disable all power to the base before installing or removing the power supply. Failure to do so could cause damage to the equipment or injury to personnel.

CAUTION:

Use only CTI or Siemens® power supplies at their rated voltage. Damage to the backplane board and other system components could occur if out of range input voltage is applied.

Installing the Mounting Base

1. Use the following steps for installing the mounting base.
2. Determine if the base will be mounted with front or rear mounts.
3. Locate the mounting ears in the appropriate front or rear locations with supplied hardware.
4. Mount the base with screws in four 'ear' slots (screw hardware not included).
5. Include sufficient distance from other heat sources to maximize convection airflow cooling.
6. Follow manufacturer's instructions for proper installation and removal of CPU,RBC, and I/O modules.

Compatibility Notes for 2500-R11-A

1. CTI 2500-RIO-A Remote Base Controllers are compatible with 2500-R11-A
2. CTI 2512 power supplies are not compatible with 2500-R11-A. 2512-A power supplies should be used instead.
3. CTI 2500 Series® Processors support operation with dual power supplies beginning with V3.21 firmware released Sep2008.
4. When using CTI 2500-RIO-A remote base controllers in 2500-R11-A, it is recommended that firmware V7.03 or greater is used in the 2500-RIO-A.
5. All CTI CPUs 2500-Cxxx Series will only access the local IO when plugged in the left most CPU slot of the R-11-A. Contact CTI Support for a more detail explanation of the support provided for more than one CPU in a 2500-R11-A.

Note: For CTI Limited Product Warranty and RMA procedures please go to www.controltechnology.com/support.htm.

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