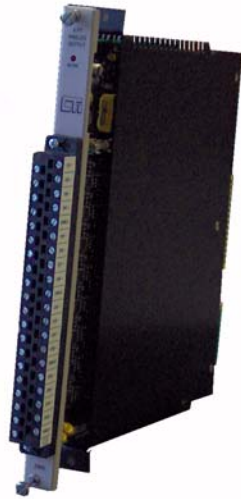


## Application Note 2500-IADP I/O Adapter for Series 500



### Description

The 2500-IADP is an I/O Adapter which allows the use of CTI 2500 Series I/O modules in Texas Instruments Series 500 I/O bases. It provides a transparent path for upgrading old Series 500 systems without the requirement to completely replace the system.

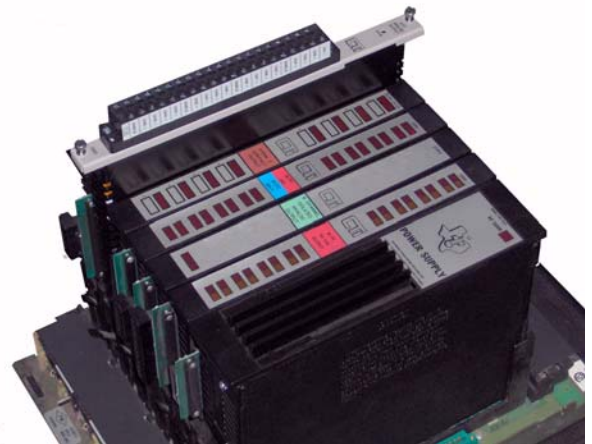
### Using the 2500-IADP

The 2500-IADP provides electrical and mechanical adaptation of a CTI 2500 Series I/O module to the Series 500 I/O slot. However, because the Series 500 system employed field wiring that was terminated at the I/O base, conversion using the 2500-IADP will often involve re-routing of the I/O wiring to the front of the new module.

Here are the basic steps involved:

1. Compare the Series 500 module you plan to replace with the new CTI 2500 series module. As an aid in selecting a replacement, the chart on page 2 shows CTI replacements for the most commonly used Series 500 I/O modules.
  - a. Do they have the same number of points / channels? If not, you may need to make addressing changes in your program.
  - b. Do the new module use the same PLC login? Are overflow / underflow and other error and status bits reported in the same manner? For analog modules, are the inputs scaled to the same range? If not, you will need to make addressing and logic changes in your program.
  - c. How does the field wiring for the new module differ from the old one?

2. Develop a re-wiring plan for replacement of your old module. There are two basic approaches:
  - a. Run jumper wires from the I/O terminations on your Series 500 base up to the I/O connector for the new CTI 2500 Series module.
  - b. Remove the I/O terminations on the Series 500 base and run new wires from your panel termination up to the new CTI 2500 Series module.
3. Implement your re-wiring plan and verify that your rewiring has been completed accurately.
4. Make any necessary changes to the I/O addressing and logic in your program
5. Install the 2500-IADP and your new CTI 2500 Series module



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## Series 500 Replacement Guide

Series 500 Part Number	Description	CTI Replacement
500-5001	110VAC 8pt Input	2588-8, 2589-A
500-5002	240VAC 8pt Input	2588-8, 2589-A
500-5005	24VDC 8pt Input	2588-8, 2589-A
500-5006	48VDC 8pt Input	2588-8, 2589-A
500-5007	TTL 8pt Input	2585
500-5008	24VDC 8pt Input	2588-8, 2589-A
500-5009	Analog 4pt Input	2558, 2550-A
500-5010	24/48 VAC 8pt Output	2598-8, 2599
500-5011	110VAC 8pt Output	2598-8, 2599
500-5012	240VAC 8pt Output	2598-8, 2599
500-5013	24/48VDC 8pt Output	2596-8, 2597
500-5016	Analog 2pt Output	2562, 2560-A
500-5018	Word 8pt Input	2585
500-5019	Word 8pt Output	2595
500-5030	24VDC 32pt Input	2589-A
500-5031	24VDC 32pt Output	2597
500-5032	110VAC 6pt Isolated Input	2580
500-5033	110VAC 4pt Isolated Output	2590-A
500-5037A	Analog 8pt Input	2558, 2550-A
500-5047A	Analog 8pt Output	2562, 2560-A
500-5048	24VDC 6pt Isolated Input	2581
500-5049	24VDC 4pt Isolated Output	2591-A
500-5051	8pt Thermocouple Input	2559-TC
500-5052	16pt RTD Input	2557
500-5055	110VAC 32pt Input	2589-A
500-5056	24/110VAC 32pt Output	2599
500-5061	8pt Relay	2534, 2530
500-5062	8pt Relay	2534, 2530
500-5187	16pt 110VDC input	2589-A
500-5192	32pt 48VDC input	2589-A
500-5194	32pt TTL input	2585 (16pt)

