2500 Series® Compact
Programmable Automation Control System

OVERVIEW

The 2500 Series® Compact PAC System delivers all of the performance and reliability of the 2500 Series® Classic System in a significantly smaller form factor. Featuring the same programming software and instruction set, and the same communication, remote I/O and data sharing protocols, the 2500 Series® common architecture allows Compact System users to get up to speed quickly using existing tools and diagnostics and to integrate Compact Series products with other 2500 Series® products easily.

The 2500 Series® Compact System includes a family of Processors comparable to our 2500 Series® Classic Processors, as well as a wide range of digital, analog and specialized I/O modules, power supplies, and bases. The Compact System works seamlessly with Classic 2500-Cxxx processors, as well as Simatic® 545 and 555 processors to manage everything from small discrete control applications to large process applications with PID loops, alarms, and special mathematical functions. The CTI approach to automation emphasizes continuous evolutionary improvement, compatibility across successive product generations and operational simplicity to help customers optimize plant performance at the least possible cost.

Small Package, Big Performance

The 2500 Series® Compact PAC system provides the same functionality found in many larger systems, but in a smaller form factor and at a lower cost. The 2500 Series® Compact PAC system is fully compatible with all other 2500 Series® products, ideal for mixing and matching products from various product lines to best meet application requirements.

Whether you're building a machine or a new process control system, the 2500 Series Compact® PAC System offers:

- **Choice of processors to fit your requirements**
- **Full-featured performance supporting up to 8192 I/O points and 512 PID loops**
- **Advanced functionality**
- **Hot swappable modules**
- **Multiple remote I/O network options**
- **Easy connection to other 2500 Series® products**

FUTURE DEVELOPMENT

- Coprocessor modules providing high volume data management and communication with major industrial Ethernet protocols
- Support for redundancy in power supplies, remote base controllers and CPUs

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	Product	Models	Features
	Processors	2500C-C100 - CPU w/128K User Memory 2500C-C200 - CPU w/256K User Memory 2500C-C300 - CPU w/512K User Memory	Up to 512 loops, 512 alarms, 8192 digital & analog I/O, built-in Ethernet, USB, and SD card. RS485 remote I/O and Profibus-DP remote I/O on C200 and C300 models.
	Base	2500C-R4 - Four-slot Base 2500C-R8 - Eight-slot Base 2500C-R16 - Sixteen-slot Base 2500C-SSB - Single slot Blank	Space for power supply, CPU/ RBC, slots for up to 16 I/O modules. All bases support high-speed channel.
	RBC	2500C-RBC-RS485 - RS485 Remote Base Controller 2500C-RBC-PRF - Profibus Remote Base Controller	Controls remote I/O bases on either RS485 or Profibus-DP I/O channel. Up to 15 remote bases (RS485) or 112 remote bases (Profibus-DP) can be attached to the CPU
	Power Supply	2500C-PS-120V-35 - 35-Watt AC Power Supply 2500C-PS-125V-35 - 35-Watt DC Power Supply 2500C-PS-24V-35 - 35-Watt DC Power Supply	35-watt power supplies for voltages 120/240VAC, 125VDC, and 24VDC. Holdup times to 100msec
	Digital Input	2500C-16-DI-24V - 16 24V AC/DC Inputs 2500C-16-DI-120V - 16 120/240V AC/DC Inputs 2500C-16-IDI-24V- 16 Isolated 24V AC/DC Inputs 2500C-16-IDI-120V - 16 Isolated 120V AC/DC Inputs	16 isolated or non-isolated inputs, hot-swappable
	Digital Output	2500C-8-IDO-24V - 8 Isolated 24VDC Outputs 2500C-8-IDO-120V - 8 Isolated 120/240VAC Outputs 2500C-16-DO-24V - Sixteen 24VDC Outputs 2500C-16-DO-120V - Sixteen 120VAC Outputs	8 or 16 outputs (8 output modules are isolated), hot-swappable
	Analog	2500C-8-AI - 8 Analog Inputs 2500C-8-AO - 8 Analog Outputs	Wide input and output ranges, no user calibration, hot-swappable
	Relay Output	2500C-8-RL-FC - 8-Point Form-C Relay Outputs	Up to 5A output current per channel, hot-swappable
	Temperature	2500C-8-TC - 8 Thermocouple Inputs 2500C-8-RTD - 8 RTD Inputs	Thermocouple supports J, K, T, E, R, S, & N and millivolt inputs. RTD supports 2,3 and 4 wire RTDs. No user calibration, hot-swappable
	Counter*	2500C-4-HSC 4-Channel High Speed Counter	Operates in frequency, period or counter mode, hot-swappable
	Ethernet	2500C-2572-B Fast Ethernet TCP/IP Adapter	100Mbit communications, supports CAMP and Modbus-TCP

* coming soon

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.

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SIMPLY SEAMLESS™

The CTI 2500 Series® Automation System

The 2500 Series® has a proud legacy as one of the world's premier process control platforms and is known for its capability, simplicity and reliability. CTI has modernized this legendary product line with smart enhancements and rich features to create a complete automation solution that helps our customers run their plants as safely, efficiently and seamlessly as possible.

The BLUE Platform

CTI 2500 Series® products are built on the BLUE platform — CTI's seamless systems architecture. Products built on the BLUE platform are engineered with a consistent design philosophy, a common operating system and common communications protocols and interfaces. This approach ensures interoperability between various components of the system as well as between various product generations to deliver seamless operational communications and control and maximum efficiency with minimum process downtime and greatly reduced engineering development time.

Whether you choose Classic, Compact or Slice, the BLUE platform's seamless systems architecture will ensure seamless integration and powerful process control. Please contact us to learn more.

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