

Introducing the CTI 2500 Series[®] Compact Janus Programmable Automation Controller



DESCRIPTION

The new Compact “Janus” Processor brings completely new capabilities to the CTI 2500 Series[®] System. Designed to work seamlessly with existing 2500 Series[®] (Classic and Compact) and Simatic[®] TI505 Systems as well as look to the future with state-of-the-art programming, protocols and capabilities, including support for Industry 4.0 through direct access to the Industrial Internet of Things (IIOT) using MQTT.

This Programmable Automation Controller (PAC) is fast, agile and optimized for quick, easy, and cost-effective communications. It features integrated drivers to an industry-leading number of protocols, allowing communications with best-in-class I/O devices, drives, and HMI/SCADA no matter the manufacturer. Programmed with CTI’s user-friendly and budget-friendly new JANUS Workbench Software, which supports all IEC-61131-3 programming languages.

KEY FEATURES

- Programmed using Janus Workbench Software (JSoft), which allows use of all IEC-61131-3 languages: LD (RLL), FBD, ST, SFC and IL
- Up to 10x execution speed compared to current 2500 Series[®] CPUs
- Built-in Remote I/O and Profibus interfaces with support for all existing 2500 Series[®] discrete and analog modules, Classic and Compact
- Built-in web server for diagnostics and statistics simplifies troubleshooting and support
- Built-in web-based visualization of graphics pages designed in Janus Workbench
- Entire operating system, firmware, and user program is contained on a standard SD card, which makes replacement of the PLC easy, should you ever have a failure
- Four Ethernet ports with internal switch that supports simultaneous connection to 4 different Ethernet networks
- Support of multiple communication protocols for connecting to major HMI and SCADA systems
- Extensive built-in communications capabilities:
 - ✓ Optimized peer-to-peer communications with other JANUS Series PACs and 2500P-ACP1 / 2500P-ECC1 coprocessors
 - ✓ CAMP Client for communicating with all CTI Ethernet products (2572, 505-CP2572, 2572-A, 2572-B, 2500P-ECC1, 2500 Series[®] CPUs)
 - ✓ CAMP Server for HMI/SCADA access
 - ✓ Open Modbus Client and Server
 - ✓ Ethernet/IP Scanner
 - ✓ Ethernet/IP Adapter
 - ✓ Ethernet/IP Tag Client
 - ✓ Ethernet/IP Tag Server
 - ✓ MQTT client for direct access to the IIoT
 - ✓ OPC-UA server (firmware 1.24 and above)
 - ✓ Profinet controller and device (future)

2500 Series[®] PAC System
Product Release Announcement



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ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.

2500C-J750 "Janus" Controller Specifications

Built-in display for IP address and errors	yes
Ethernet	
Number of IP/Subnet Configurations	4
Number of connections	64
I/O	
Max I/O Points (Digital / Analog)	16K / 16K
Local I/O	yes
Remote I/O	yes
Ethernet I/O	future
Profibus - 64 Slaves	yes
Max I/O Data (Bytes)	32K
User Memory	
Code (Programs + Fieldbus)	3MB
Data	15MB
Web Server	yes
Enhanced On-line change	yes
Communication Protocols	
Binding (peer-peer)	yes
CAMP Server	yes
Camp Client	yes
Modbus UDP/TCP Client	choose 2**
Modbus UDP/TCP Server	yes
Data Cache Client Connections / Variables	1 / 6144
DataCache Client Block Disable	yes
Ethernet/IP Scanner & Flex I/O	choose 2**
Ethernet/IP Adapter	yes
Ethernet/IP Tag Server	yes
Ethernet/IP Tag Client	choose 2**
MQTT Client (communicates with broker)	yes
OPC-UA Server	yes
Profinet Controller	future
Profinet Device	future
SFIO Block Transfer	no

** Project may include two of these protocols