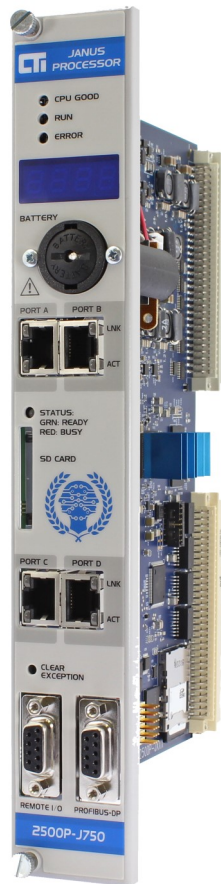


CTI 2500 Series[®] 2500P-J750 “JANUS” Programmable Automation Controller

Classic



DESCRIPTION

The new “JANUS” Processor brings completely new capabilities to the CTI 2500 Series[®] System. Designed to work seamlessly with existing 2500 Series[®] and Simatic[®]/TI 505 Systems as well as to look to the future with state-of-the-art programming, protocols and capabilities, including 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. Initially available in our Classic size, a fully-featured Compact version will be available soon.

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 (future)
 - ✓ Profinet controller and device (future)

2500 Series[®] PAC System
Product Bulletin



Control Technology Inc.

5734 Middlebrook Pike, Knoxville, TN 37921-5962
Phone: +1.865.584.0440 Fax: +1.865.584.5720
www.controltechnology.com

07MAY2020

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.

2500P-J750 "Janus" Controller Specifications

Built-in display for IP address and errors	yes
Ethernet	
<i>Number of IP/Subnet Configurations</i>	4
<i>Number of connections</i>	64
I/O	
<i>Local / Remote I/O</i>	yes / yes
<i>Max I/O Points (Digital / Analog)</i>	16K / 16K
<i>Profibus</i>	yes
<i>Max I/O Data Bytes (64 Slaves)</i>	32K
<i>Ethernet I/O</i>	future
User Memory	
<i>Project Memory (Programs + Fieldbus)</i>	3MB
<i>Program Data</i>	15MB
Web Server	yes
Web Visualization (variables)¹	256
Enhanced On-line change	yes
Communication Protocols	
<i>Binding (peer-peer)</i>	yes
<i>CAMP Server</i>	yes
<i>Camp Client</i>	yes
<i>Modbus UDP/TCP Client</i>	choose 1*
<i>Modbus UDP/TCP Server</i>	yes
<i>CTI Data Cache Client (connections)</i>	1
<i>Ethernet/IP Scanner</i>	choose 1*
<i>Ethernet/IP Adapter</i>	yes
<i>Ethernet/IP Tag Server</i>	yes
<i>Ethernet/IP Tag Client</i>	choose 1*
<i>MQTT Client (communicates with broker)</i>	choose 1*
<i>OPC-UA Server</i>	future
<i>Profinet Controller</i>	future
<i>Profinet Device</i>	future

¹ Each project variable with 'Embed Symbol' box checked is counted as a 'Web Visualization' variable whether or not it is actually used in a web page. Variables of type Structures, Function Blocks, and UDFBs are not permitted. Arrays of basic data types are allowed, but each array element counts as one variable.

* Project may include one of these protocols