

2500 Series PLC System Product Bulletin

2572 Ethernet TCP/IP Module



Description

The 2572 Ethernet TCP/IP module provides connectivity to Ethernet local area networks and allows the PLC to communicate with other network nodes using the Transmission Control Protocol / Internet Protocol (TCP/IP). Using the 2572, other devices on the network can acquire data from the PLC, send data and programs to the PLC, and exercise supervisory control over the PLC operation.

The module provides two serial ports which function as additional PLC program ports, attaches directly to IEEE 802.3 10BaseT via an RJ-45 connector, and includes UDP and TCP support.

The 2572 Ethernet TCP/IP can operate in different modes. In *Server Mode*, the module responds to the PLC commands embedded in the TCP/IP packet. The initiating device (usually a computer or a 2572 operating in client mode) encapsulates the PLC command in the TCP/IP protocol and transmits it to the 2572. The 2572 retrieves the command and formats a corresponding request to the PLC. When the 2572 receives the response from the PLC, it encapsulates the response in the TCP/IP protocol and transmits it back to the IP address which sent the initial command.

In *Client Mode*, the 2572 can initiate a TCP/IP message. PLC logic is used to tell the 2572 what to send, where to send it, and when to send it. Using the Client Mode, the local PLC can read and write memory in other remote PLCs or it can send messages to supervisory computers based on events detected by the PLC (alarm detection, data logging, etc.). Since a 2572 can operate as both a server and a client, multiple PLCs (each with a 2572) can participate in peer to peer communications.

Serial Redirect is a very powerful feature which routes data received at a serial port on the module to another node on the network. Once the serial port has been configured for the type of service and a destination address has been established, the 2572 will encapsulate the serial port data in the TCP/IP and send it to the destination. Replies from the destination address will be routed back to the serial port.

Features

- Single-wide I/O module
- Attaches to all Ethernet media (incl. RJ45)
- Two serial ports for PLC programming/MMI
- Server and Client mode operation for peer-peer communications
- Complete compatibility with Workshop and Tisoft®
- Supported by popular MMI packages



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Applications

The 2572 Ethernet TCP/IP adapter connects the CTI 2500 Series or Simatic® 505 PLC to Ethernet local area networks. It allows communication between the PLC and other network nodes using the TCP/IP protocol. Using the 2572, other devices on the network can get data from the PLC, program the PLC and exercise supervisory control over the PLC operation. The 2572 also provides high-speed PLC access from networked MMI stations and peer-peer communications between PLCs.

Specifications

Ethernet Ports	1 - IEEE 802.3 10BaseT with RJ-45 connector 1 - IEEE 802.3 AUI port with female DB15 connector 10BaseT port auto-selected if Link Beat is present AUI power derived from PLC backplane or external power supply
Serial Communications Ports	1 ea. - RS-232C (subset) male DB9 connector, DTE. RS-232 handshake lines - RTS, CTS, DSR, DTR 1 ea. - RS-422 with Female DB9 connector 1500 VDC isolation channel-to-PLC
Diagnostic LEDs	1 ea. - Module Status (ACTIVE) 3 ea. - Transmit Data (Serial Port 1, Serial Port 2, Ethernet) 3 ea. - Receive Data (Serial Port 1, Serial Port 2, Ethernet) 1 ea. - 10BaseT Link Beat Detected 1 ea. - AUI Port Selected 1 ea. - Collision Detected 1 ea. - Reversed Polarity (10BaseT Port)
Backplane Power Consumption	6.0 Watts @ 5 VDC
Module Size	Single Wide
Operating Temperature	0° to 60° C (32° to 185° F)
Storage Temperature	-40° to 85° C (-40° to 185° F)
Humidity	0% to 95% (non-condensing)
Agency Approvals	FM, UL, UL for Canada, CE

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January 24, 2012

PRODUCT MATURITY ANNOUNCEMENT

Dear CTI Customer,

CTI is announcing the maturity of the 2572 Ethernet TCP/IP Adapter for 2500 Series™ programmable controller systems.

This product is an early 1990's design and contains many parts which have been discontinued. In addition, the functions of this product have been replicated on our 2572-A Ethernet TCP/IP Adapter, as well as our upcoming 2500-ECC1 Ethernet Communications Coprocessor which will be introduced later this year.

We will mature the 2572 effective August 1, 2012. We will accept and fill last-time-buy orders until that date. After August 1, 2012, orders will be accepted only subject to stock on-hand. We will continue to support and provide repairs for 2572 until August 1, 2019.

For all new designs and replacements of existing 2572 units, you should use the 2572-A Ethernet TCP/IP Adapter or the upcoming 2500-ECC1. The 2572-A replaces all features of the 2572, except:

1. On-board serial port cannot be used for programming. If additional serial ports are needed on CTI 2500 Series™ or Simatic® 505 systems, refer to

<ftp://ftp.controltechnology.com/public/Pubs/PRODUCTS/APPNOTES/add%20serial%20ports%20to%20CTI%20processors%20using%20NET232.pdf>

or

<http://www.controltechnology.com/products/2573-mod-tcm2/>

2. S7 Send/Receive – it is now recommended to use Modbus-TCP on 2572-A to make this connection

<ftp://ftp.controltechnology.com/public/Pubs/PRODUCTS/APPNOTES/Communication%20to%20Simatic%20S7%20using%20open%20modbus.pdf>

3. The email function is not implemented on 2572-A. Most users have shifted this function to an attached HMI system.

If you have questions about this maturity announcement, please contact CTI or your CTI Preferred Automation Partner.

Regards,



Robert Peck
Senior Vice President
Control Technology Inc.



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PRODUCT: 2572 / 2500 Series Ethernet TCP/IP Adapter

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