2573-MOD / TCM2
Serial Interface Adapter with Modbus

The 2573-MOD can function as a Modbus Master and/or Modbus Slave and supports both the RTU and ASCII message formats. Modbus RTU can be used only on ports 1 and 3. All ports not used by Modbus RTU can be configured for any of the other protocols supported by the module.

Features

• Provides 4 serial ports, each providing RS-422, RS-485, and RS-232 electrical interfaces. All ports operate concurrently and independently.
• PLC logic can be used to control sending of output messages and processing of input messages.
• Enables the PLC to act as a master for devices which use Modbus RTU or ASCII Protocols.
• Serves as a Modbus Slave for Modbus RTU or ASCII protocols.
• Task Code Master Protocol allows the local PLC to access memory in other CTI 2500 Series or Simatic® 505 PLCs.
• CAMP Protocol enhances performance when transferring data between two CTI 2573 modules.
• Controls dial-up modems.

Specifications

Communications Ports: 4
Male DB9 connectors:
RS-232-C interface w/RTS and CTS
RS-422-A and RS-485 electrical interfaces
1500 VDC isolation - channel to PLC
Communications Parameters:
Baud Rates: 300-19,200 baud
Data Bits: 7 or 8. Stop Bits: 1 or 2.
Parity: Even, Odd, None
Handshake: Hardware, Software, None
Diagnostic LEDs:
Module Status, Transmit & Receive per port
Module Size: Single-wide
Backplane Power Consumption: 6.0W
Environmental:
Operating Temperature: 0° to 60°C (32° to140°F)
Storage Temperature: -40° to 85°C (-40° to 185°F)
Humidity: 5% to 95% (non-condensing)
Agency Approvals:
UL, UL-C, FM (Class I, Div 2), CE
Shipping Weight: 2 lbs.

Description

The CTI 2573-MOD Serial Interface Adapter is a microprocessor-based communications adapter for CTI 2500 Series and Simatic® 505 controllers. The 2573-MOD provides support for communicating with plant floor devices such as modems, bar code readers, scales, displays, printers, and other PLCs. The module is especially suited for communicating with devices that use the Modbus Protocol.

The 2573-MOD provides four serial ports. Each port is independently configurable for electrical interface, communications parameters, and protocol support.
Port electrical interfaces include RS-422-A, RS-485, and a subset of RS-232-C.

Each port can be individually configured for a specific protocol. The 2573-MOD protocols include Modbus ASCII, Modbus RTU, NITP (Non-Intelligent Terminal Protocol), CAMP (Common ASCII Message Protocol), and GAS (General ASCII Support). PLC logic can be used to control transmission of messages using the various protocols.
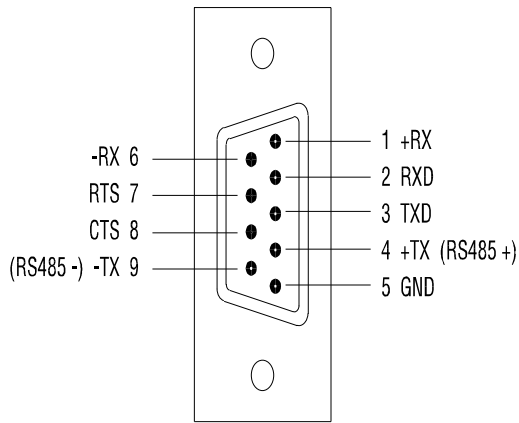
Control Technology Inc.

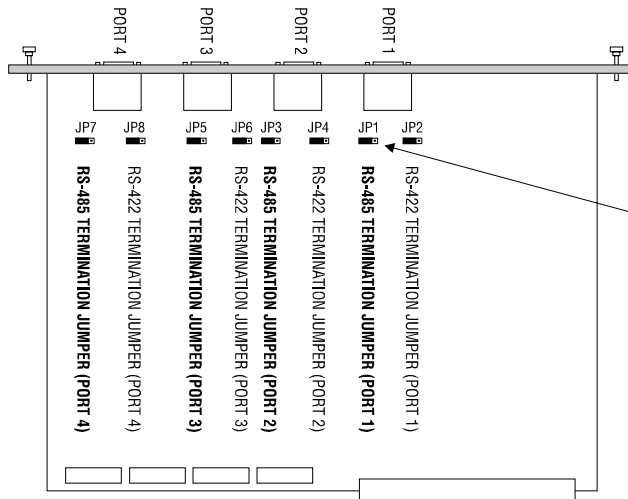5734 Middlebrook Pike, Knoxville, TN 37921-5962
Phone: 865/584-0440   Fax: 865/584-5720   www.controltechnology.com
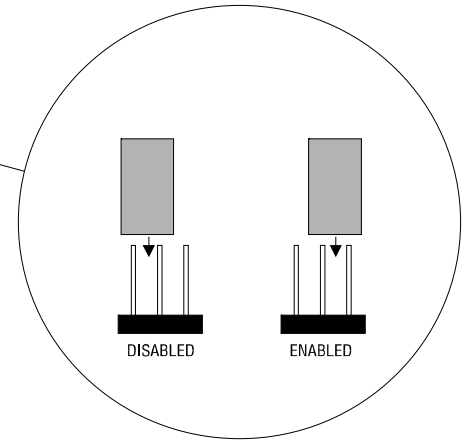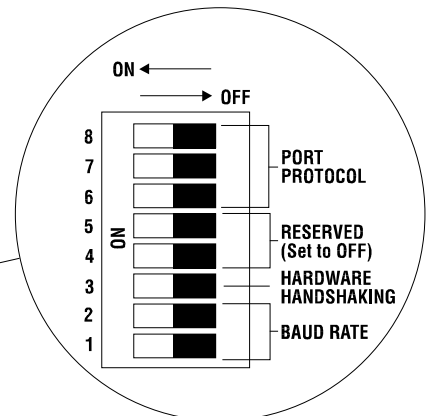
2573 Serial Port Pinout

-RX 6
RTS 7
CTS 8
(RS485 -) -TX 9

1 +RX
2 RXD
3 TXD
4 +TX (RS485 +)
5 GND

NOTE: ALL JUMPERS SHOWN IN DISABLED POSITION

RS-485 TERMINATION JUMPER (JP1 SHOWN)

DISABLED   ENABLED

Termination Resistor Jumper Locations

ON
OFF

8
7
6
5
4
3
2
1

ON

PORT PROTOCOL

RESERVED (Set to OFF)

HARDWARE HANDSHAKING
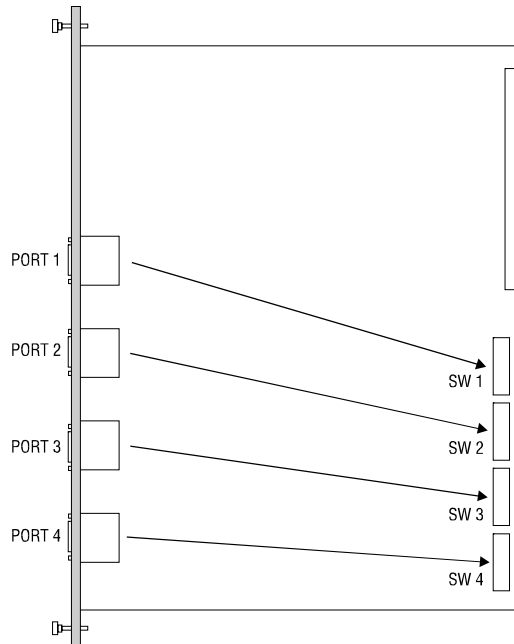
BAUD RATE

ALL DIP SWITCHES ARE SHOWN
IN THE OFF POSITION, INDICATING
TASK CODE SLAVE PROTOCOL,
HARDWARE HANDSHAKE DISABLED,
AND A BAUD RATE OF 9600.

PORT 1
PORT 2
PORT 3
PORT 4

SW 1
SW 2
SW 3
SW 4

2573 Switch Locations