# 2576 DeviceNet™ Scanner Module



## Features

- Connects CTI 2500 Series or Simatic® 505 PLC to a DeviceNet™ network
- DeviceNet™ points appear as a standard PLC I/O
- RS-232 serial port for configuration of module and network devices
- Front panel LEDs allow monitoring of module and network devices
- Built-in power tap can be used to power DeviceNet™ network

## Specifications

**Configuration Port:** RS-232, Male DB9
**Auxiliary Port:** RS-232, Male DB9
**DeviceNet™ Port:** DeviceNet standard connector
**Power Tap:** Phoenix style 3 pin
**Status LEDs and Displays:**
Active, Transmit & Receive for each port, Module Status, Network Status, Node Address, Status Code
**Module Size:** Double wide
**Backplane Power Consumption:** 7.0 watts
**Environmental:**
Operating Temperature: 0° to 60°C (32° to 140°F)
Storage Temperature: -40° to 85°C (-40° to 185°F)
Relative Humidity: 5% to 95% (non-condensing)
**Shipping Weight:** 3 lbs
**Agency Approvals:** UL

## Description

The 2576 DeviceNet™ Scanner module interfaces a CTI 2500 Series or Simatic® 505 PLC to a DeviceNet™ network. The module provides one DeviceNet™ channel which can attach up to 63 network devices. Multiple modules can coexist in the same I/O base

The module logs into the PLC as a high density module (32X, 32Y, 32WX, and 32WY) and as a Special Function module. Data points on DeviceNet™ nodes can be mapped to X, Y, WX, and WY points and read as normal discrete or analog values.

Serial ports on the module provide DeviceNet™ access to configure the module. Network configuration data is stored in module flash EEPROM.

Convenient front panel LEDs indicate the status of the module and the DeviceNet™ network. A 24VDC power supply can be connected to the built-in power tap to provide power for the DeviceNet™ network.
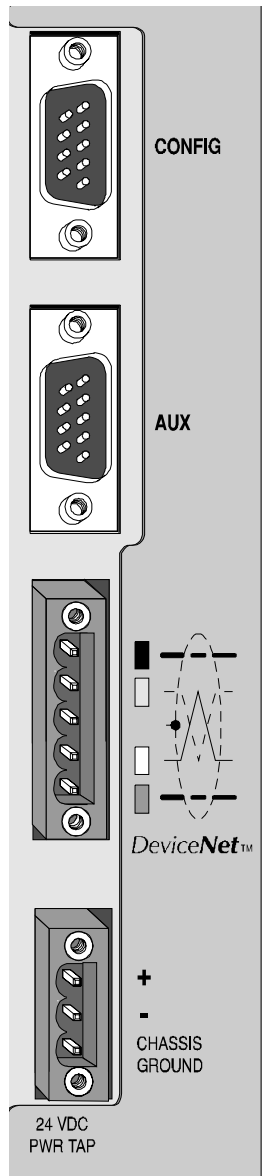
## Serial Communications Ports

The module has two serial communications ports. Both ports use a subset of the RS-232 electrical interface standard (TxD, RxD, and SG). The port configuration is designed to accept the same cables used for connecting CTI 2500 Series or Simatic® 505 PLCs to a PC. See Appendix A of the User Manual for additional details regarding cable assemblies.

The CONFIG port is used for downloading and uploading configuration data between the module and a PC, controlling the operation of the module, and performing diagnostic functions. CTI supplies software for performing these functions.

The AUX port is reserved for future use.

## DeviceNet™ Port

The DeviceNet™ port uses the standard five pin DeviceNet™ connector. The inner pins are used for signals while the outer pins supply power to the local DeviceNet™ circuitry. Since most of the module electronics is powered from the PLC, the module draws only a small amount of current from the network (100ma maximum).

## NOTE:

Although the module obtains power from the PLC backplane, you must also apply 24VDC power to the DeviceNet™ connector. The DeviceNet™ standard requires that the DeviceNet™ interface be powered from the network in order to isolate module electronics from the network.

## Power Tap

The power tap provides a means to supply power to the DeviceNet™ network using a 24VDC power supply that conforms to DeviceNet™ standards. The power tap current draw is limited to four amps by an internal fuse.