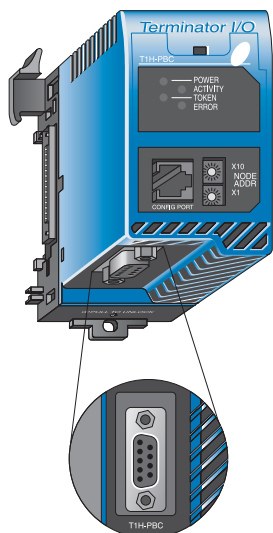


Profibus Slave

T1H-PBC



If you are using a Profibus controller network, the Terminator I/O sub-system will help further reduce the cost of your overall application. The T1H-PBC module allows the micro-modular Terminator I/O sub-system to be linked with a Profibus master controller. Profibus is a control bus that provides a common method to connect automation equipment with devices on a single network. This standard communications media is referred to as Profibus and significantly reduces hard-wiring costs. Profibus provides specifications for information exchanged between nodes, such as controller data associated with low-level device and configuration parameters individually related to system operations.

Profibus allows 32 stations per segment. Segments vary in length depending on the desired transmission speed. The maximum speed is achieved on a segment 100 meters (327 feet) in length. Our Profibus DP Slave represents a single station. Repeaters also count as stations and are used to extend the network to greater distances. Our Profibus module supports baud rates of 9.6 Kbaud to 12 Mbaud depending on the network length.

Here's how it works:

The T1H-PBC module is a Profibus slave, which can be plugged into the network interface position of the Terminator I/O micro-modular family of I/O bases. This module reports all the identification data, diagnostic information, and parameters that control the module operation. The T1H-PBC module scans and reports all discrete and analog I/O data to a Profibus master. The externally-powered AC Terminator I/O base units contain a 24 VDC power supply for simple wiring of sensors and actuators into the Terminator I/O modules, and for controlling them with a Profibus master. Using our Profibus I/O sub-system will increase installation flexibility as well as save on wiring costs. The T1H-PBC module supports all Terminator discrete and analog I/O modules.

The T1H-PBC also offers the following features:

- **Cost-effective:** With a single network for devices, hardwiring costs are reduced.
- **Easy connectivity:** Low-cost installation is easy to implement and maintain.
- **Diagnostics:** The Profibus slave offers advanced error diagnostics not commonly available in traditional systems.
- **High baud rates:** Response time is 10 ms per device
- **LED Indicators:** These provide quick indication of Terminator power and operating mode.

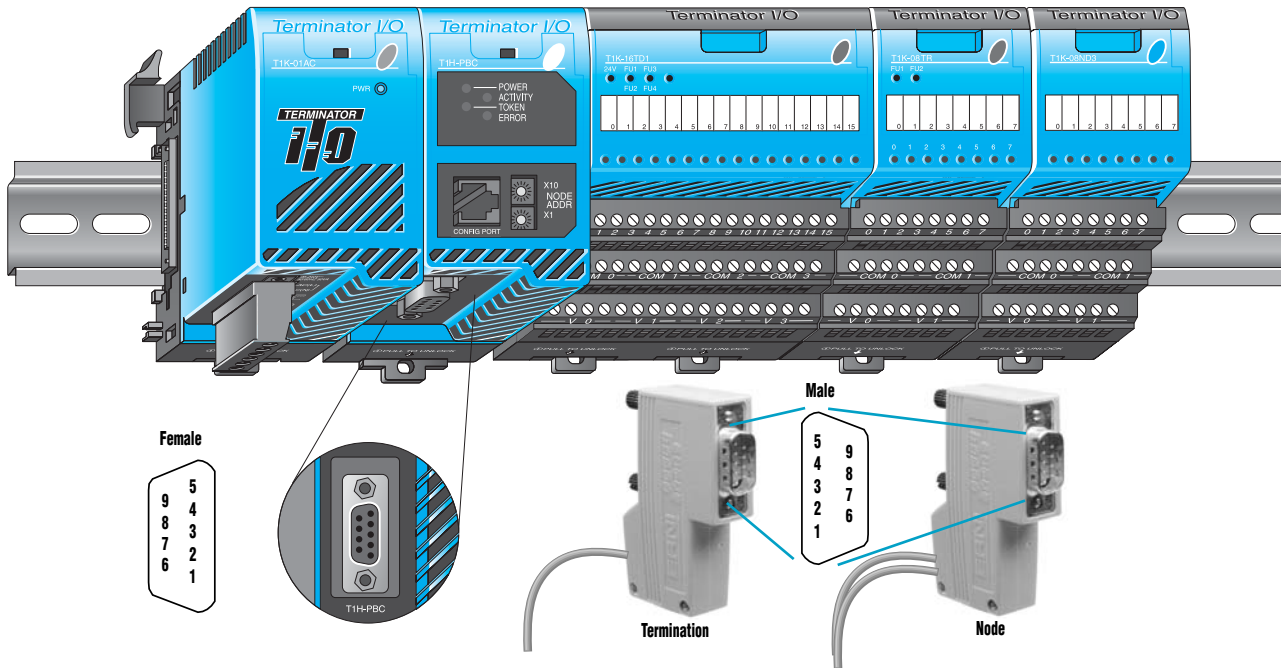
Specifications	
Module Type	Profibus Network Interface Module
Max. Expansion	126 stations, 32 stations per segment, 9 repeaters in a row
Max. I/O Points per Controller	244 Input Bytes (analog or discrete) 244 Output Bytes (analog or discrete) as specified by the Profibus DP Specification
Communications	RS-485 Profibus, Profibus-DP. Baud rate selectable from 9.6 Kbaud to 12 Mbaud.
Module Connectors	Profibus 9-pin D-shell, RJ-12 serial (for firmware update only)
Internal Power Consumption	530 mA maximum at 5 VDC (supplied by base power supply)
Operating Environment	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
Manufacturer	Host Automation Products, L.L.C.



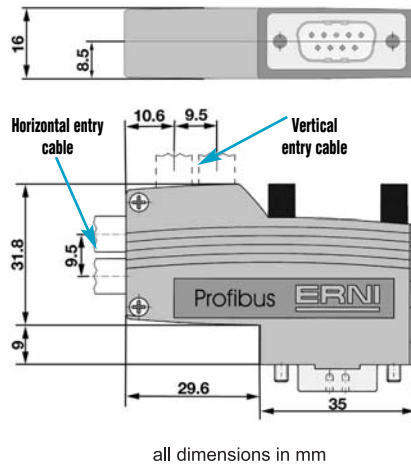
Please Note:

1. Terminator I/O Profibus slave network interface module T1H-PBC is a PTO-certified Profibus-compliant slave I/O interface product.
See www.profibus.com for more information.
2. For use with Think & Do Software, we recommend the SST Profibus PCI Master Card, part number 5136-PFB-PCI. (AutomationDirect does not provide this interface).
See www.mysst.com for more information.

Profibus Slave



Baud	Max. Segment Length		Max. Expansion	
	Feet	Meters	Feet	Meters
9.6 Kbps	3278	1000	32786	10000
19.2 Kbps	3278	1000	32786	10000
93.75 Kbps	3278	1000	32786	10000
187.5 Kbps	3278	1000	32786	10000
500 Kbps	1311	400	13114	4000
1.5 Mbps	655	200	6557	2000
3 Mbps	327	100	3270	1000
6 Mbps	327	100	3270	1000
12 Mbps	327	100	3270	1000

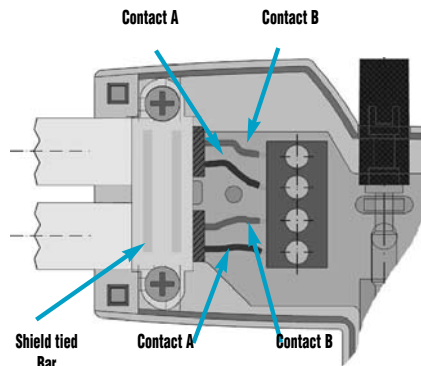


ERNI ERbic connectors for Profibus networks

Connectors are available for the Profibus Base Controller. They are available in standard node and standard termination styles with vertical cable entry for Terminator I/O.

Terminator I/O Modules Supported	
Discrete Types	Analog Types
8-point DC Input	8-channel Current Input
8-point AC Input	8-channel Voltage Input
16-point DC Input	8-channel Current Output
16-point AC Input	8-channel Voltage Output
8-point DC Output	16-channel Current Input
8-point AC Output	16-channel Voltage Input
16-point DC Output	16-channel Current Output
16-point AC Output	16-channel Voltage Output
8-point Relay Output	
16-point Relay Output	

Recommended Cables	
Siemens	6XV1 830 0AH10
Belden	3079A



ERNI ERbic Connectors			
Part Number	Price	Description	Device
103658	<--->	Profibus certified standard node vertical connector. 9-pin male D-sub	Terminator I/O T1H-PBC or any Profibus ISA/ PCI Personal Computer Master/Slave Card
103659	<--->	Profibus certified standard termination vertical connector 9-pin male D-sub	Terminator I/O T1H-PBC or any Profibus ISA/ PCI Personal Computer Master/Slave Card

PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Pushbuttons/Lights

Process

Relays/Timers

Comm.

TB's & Wiring

Power

Enclosures

Appendix

Part Index