

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

## 7400195-210

COMMUNICATION MODULE BASEPLATE

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Trident Planning Installation Guide

# Communication Module

The following communication components are available.

| Model | Description             | Type                                       |
|-------|-------------------------|--------------------------------------------|
| 3201  | Communication Module    | Single or redundant Configuration, non-TMR |
| 2201  | Communication Baseplate |                                            |

The Communication Module (CM) is an optional, three-to-one interface to the MPs. Using a variety of communication methods, protocols, and physical media types, the CM enables communication with:

- External host computers
- Distributed control systems (DCS)
- Open networks
- Network printers
- Other Trident systems
- Tricon V9 systems

A single Trident controller supports up to two CMs on one CM Baseplate. Each CM operates independently and supports three RS-232/485 serial ports and two Ethernet ports. Two CMs can provide redundant communication connections or additional independent communication ports.

The CM Baseplate should be connected directly above or below an MP Baseplate. Two MP Interconnect Assemblies are required to connect the MP Baseplate to the CM Baseplate. For more detailed information, see the *Trident Communication Guide*.

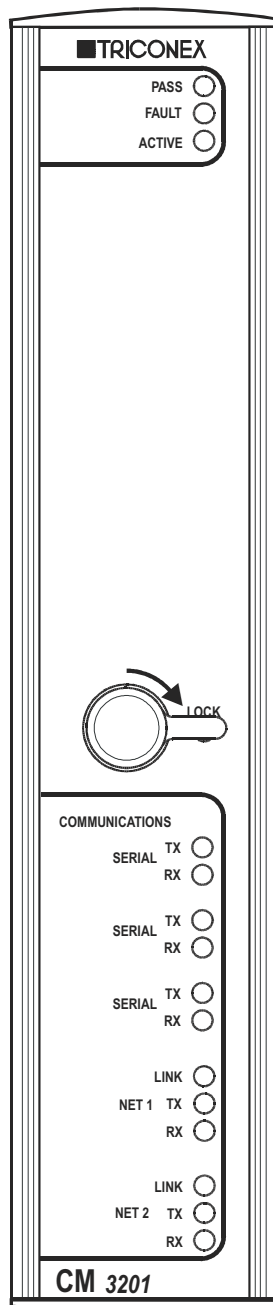
## Communication Capabilities

Each CM provides the following communication capabilities:

- Serial ports
- Network ports
- Protocol support

## Model 3201 Communication Module

CM Front Panel



## Connecting TriStation to a CM Port

If your Trident system includes a CM and you want to use a TCP/IP connection to the TriStation PC, you can connect the TriStation PC to the NET1 or NET2 port on the CM. A 10BaseT cable must be used for a NET1 connection. A 10BaseT or 100BaseTX cable can be used for a NET2 connection. On the CM Baseplate, you can attach the cable to an RJ-45 connector or to a MAU. For information about the types of MAUs you can use, see the *Trident Communication Guide*.

▼ **To connect a TriStation PC to a CM port using a cross-over cable:**

- 1 Attach one end of a cross-over cable to a NET1 or NET2 connector on the CM Baseplate, as shown in the example below.
- 2 Attach the other end of the cross-over cable to the network adapter card in the TriStation PC.

