

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

7400206-100

TRIDENT SYSTEM BASEPLATE ASSEMBLY

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Trident Planning Installation Guide

For a brief description of the modules, see the following tables.

Main Processor Module

Model	Description	Points
3101	14-maximum I/O modules, executes control application and votes on inputs and outputs	Not applicable

Communication Module

Model	Description	Points
3201	Interfaces, Modbus master or slave, selectable RS-232/485 serial ports, TriStation, Triconex Peer-to-Peer, TSAA, and TCP-IP/UDP-IP	Not applicable

Analog Input Module

Model	Description	Points
3351	4–20 mA, commoned, 6% over-range	32

Analog Output Module

Model	Description	Points
3481	4–20 mA, commoned, 6% over-range	4
3482	2 @ 4–20 mA, 2 @ 4–40 mA, commoned, 6% over-range	4

Digital Input Module

Model	Description	Points
3301	24 V DC, commoned	32

Digital Output Module

Model	Description	Points
3401	24 V DC, commoned	16

Pulse Input Module

Model	Description	Points
3381	0.5 Hz to 32 kHz, differential	6

Solid-State Relay Output Module

Model	Description	Points
3451	Non-triplicated, commoned in groups of 2	32

I/O Extender Modules

Model	Description
2281	I/O Extender Module Kit (without termination)
2291	I/O Extender Module Kit for I/O Baseplate (with termination)
2292	I/O Extender Module Kit for MP Baseplate (with termination)

Main Processor Module

The following Main Processor components are available.

Model	Description
3101	MP Module (up to 14 I/O modules)
2101	MP Baseplate

A minimum Trident system has one MP Baseplate housing three MPs. Each MP Module serves as one channel of a Trident system. An MP Module consists of processors that execute the following firmware:

- Application processor and system executive (SX)
- I/O processor and input/output executive (IOX)

System Executive

The system executive performs the following functions:

- Control application execution
- TriBus communication and voting
- System diagnostics
- TriStation and Modbus slave communication

Input/Output Executive

The input/output executive performs the following functions:

- I/O module ASIC communication
- I/O control
- I/O diagnostics