

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

MP 3101

TRIDENT MAIN PROCESSOR MODULE

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

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

Models 3101 Main Processor Module

**MP Module
Front Panel**

