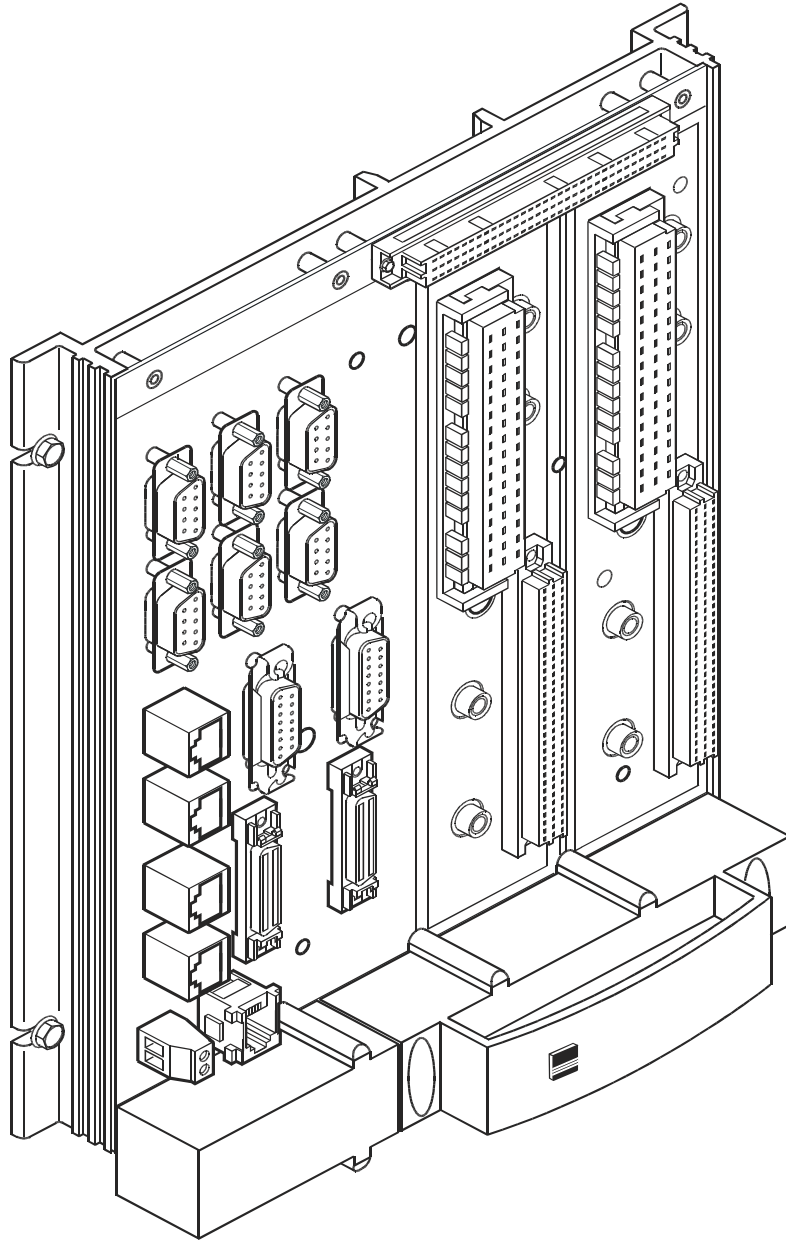
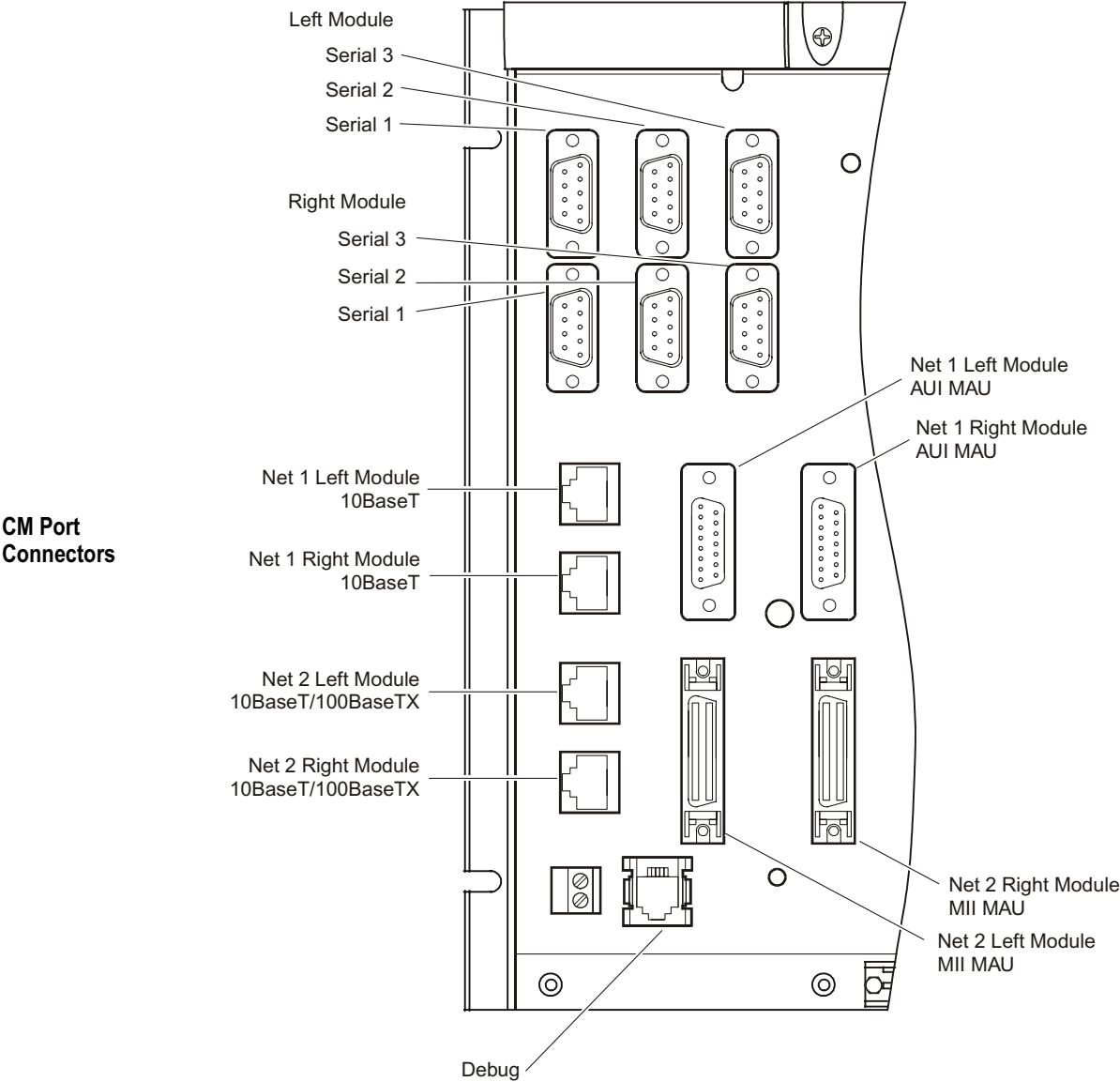


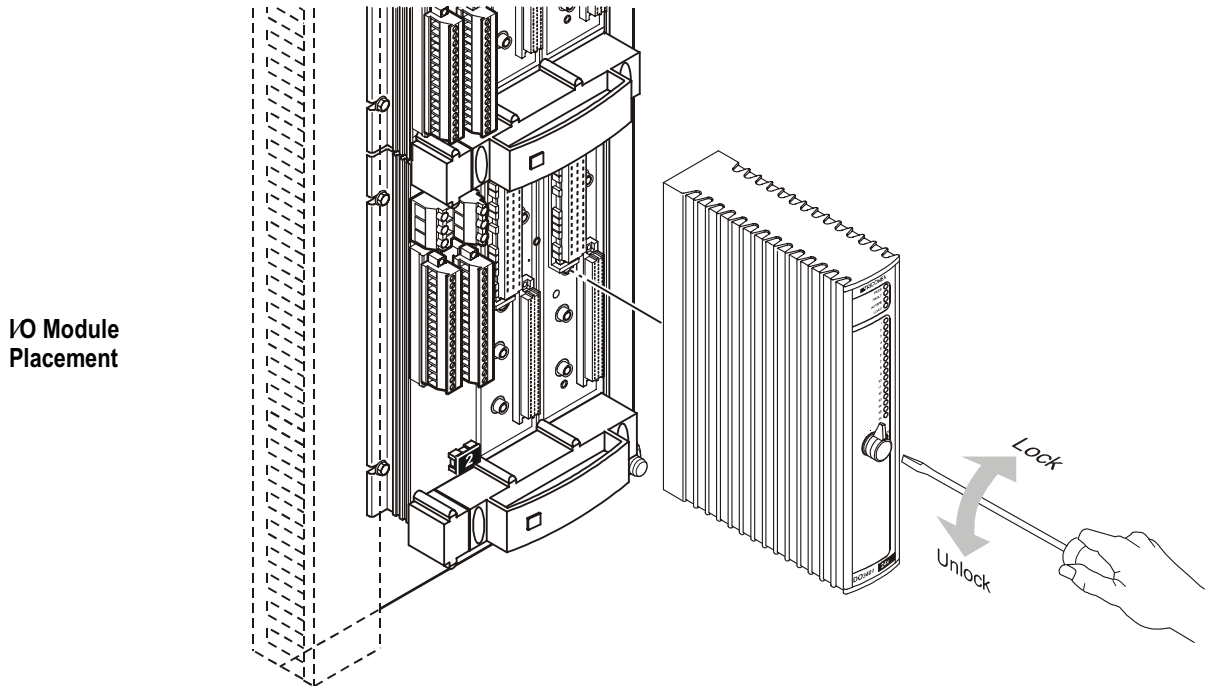
Model 2201 Communication Module Baseplate





Input/Output Modules

Each I/O module occupies one of two slots that constitute an I/O set. The left module occupies the slot below the “L” label and the right module occupies the slot below the “R” label. At any time, the status of either the left or right module can be active or hot spare (for online replacement or back-up).



Field Terminations

Field devices are terminated directly to the baseplate.

Common Specifications

Wiring Terminals

Feature	Specification
Compression terminals	Compatible with 24 to 12 (0.2 mm ² to 3.3 mm ²) AWG wiring

Logic Power

Feature	Specification
Nominal input voltage	24 V DC
Voltage range	24 V DC –15% or +20% + 5% AC ripple (19.2 to 30 V DC)
Logic power	<3 W
Absolute maximum input voltage	33 V DC
Absolute maximum reverse input voltage	–0.6 V DC
Input power interruption time from nominal	1 ms maximum
Power interruption interval	1 sec minimum
Reverse current isolation input to input	500 µA maximum
Inrush current per input	2.4 A maximum
Short circuit current limit per input	2.4 A maximum
Functional-earth-to-logic-ground isolation	0 V, no isolation
Protective-to-functional-earth isolation	500 V DC, minimum

Field Power

Feature	Specification
Nominal field voltage	24 V DC
Operational voltage range	24 V DC –15% or +20% + 5% AC ripple (19.2 to 30 V DC) ¹
Power	See module specifications
Absolute maximum input voltage	33 V DC
Absolute maximum reverse input voltage	–0.6 V DC
Input power interruption time from nominal	Not applicable
Power interruption interval	Not applicable
Reverse current isolation	500 μ A maximum
Functional- to-protective-earth isolation	500 V DC, minimum
Functional-to-functional-earth (logic) isolation	800 V DC, minimum

1. For the PI Module, the voltage ranges are configurable in TriStation 1131.

Analog Input Module

The following analog input components are available.

Model	Description	Current	Type
3351	Analog Input Module	4–20 mA	Commoned
2351	Analog Input Baseplate		Direct Termination
2352	Analog Input External Termination Panel Baseplate		External Signal Conditioners

The Analog Input (AI) Module has three independent input channels. Each input channel receives variable voltage signals from each point, converts them to digital values, and transmits the values to the three MPs on demand. One value is then selected using a mid-value selection algorithm to ensure correct data for every scan. Sensing of each input point is performed in a manner that prevents a single failure on one channel from affecting another channel.

The AI Module sustains complete, ongoing diagnostics for each channel. If the diagnostics detect a failure on any channel, the module’s Fault indicator is activated, which in turn activates the system alarm. The Fault indicator points to a channel fault, *not* a complete module failure. The AI Module is guaranteed to operate properly in the presence of a single fault and may continue to operate properly with multiple faults.

The AI Module supports hot sparing for online replacement of a faulty module or continuous back-up to an active module. The AI Module is mechanically keyed to prevent improper installation in a configured baseplate.