






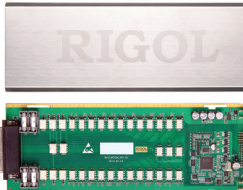



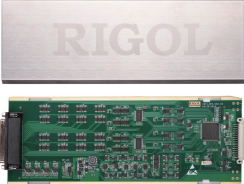

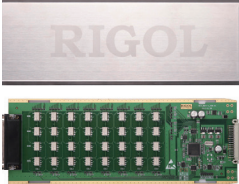





M300 Series Data Acquisition/ Switch System

Modules/Terminal Block Supported by M300

Module	Terminal Block	Description
 DMM-MC3065	MC3065 doesn't need terminal block	<ul style="list-style-type: none"> • DMM module • Used to measure the signal • 6½ digits • Support the following functions: DCV, ACV, DCI, ACI, 2WR, 4WR, FREQ, PERIOD, TEMP and any sensor • After connecting the DMM module, make sure that the signal under test connected to the analog bus is no greater than 300 Vdc or 300 Vrms
 MUX20-MC3120	 M3TB20	<ul style="list-style-type: none"> • 20-channel multiplexer • All 20 channels switch both HI and LO inputs • Support 4-wire measurement • The signal to be tested is connected through the M3TB20 terminal block • Can be connected with MC3065
 MUX32-MC3132	 M3TB32	<ul style="list-style-type: none"> • 32-channel multiplexer • All 32 channels switch both HI and LO inputs • Support 4-wire measurement • The signal to be tested is connected through the M3TB32 terminal block • Can be connected with MC3065
 MUX64-MC3164	 M3TB64	<ul style="list-style-type: none"> • 64-channel single-ended multiplexer • All 64 channels can switch HI input only • Doesn't support 4-wire measurement • The signal to be tested is connected through the M3TB64 terminal block • Can be connected with MC3065
 MIX24-MC3324	 M3TB24	<ul style="list-style-type: none"> • Mixed multiplexer with 20 voltage channels and 4 current channels • All 20 voltage channels switch both HI and LO inputs • 20 voltage channels support 4-wire measurement • 4 current channels are used to measure DC current or AC current • The signal to be tested is connected through the M3TB24 terminal block • Can be connected with MC3065

 <p>ACT-MC3416</p>	 <p>M3TB16</p>	<ul style="list-style-type: none"> • 16-channel actuator • Can connect signal to the device under test or enable external device • Any of the 16 channels can switch to Normally-Open (NO) and Normally-Closed (NC) states • The signal is connected through the M3TB16 terminal block
 <p>MFC-MC3534</p>	 <p>M3TB34</p>	<ul style="list-style-type: none"> • Multifunction module • DIO: four 8-bit digital input/output ports • TOT: four totalizer input terminals • DAC: four analog output terminals • The signal is connected through the M3TB34 terminal block
 <p>MATRIX-MC3648</p>	 <p>M3TB48</p>	<ul style="list-style-type: none"> • 4 × 8 two-wire matrix switch • Used to connect multiple devices to multiple points on the device under test • 32 two-wire cross points which can connect any combination of inputs and outputs at the same time • The signal is connected through the M3TB48 terminal block

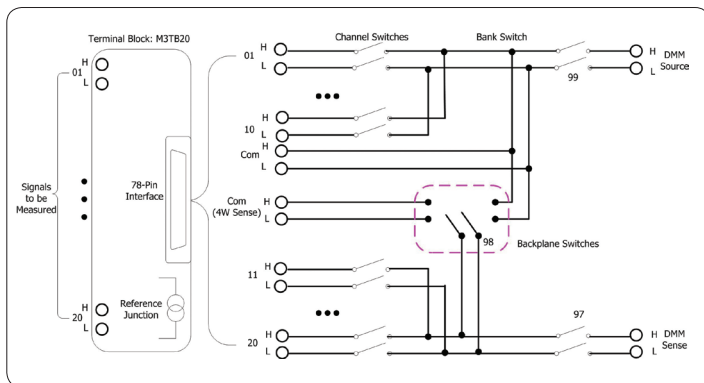
Multiplexers Selection Guide

M300 provides five kinds of multiplexers and five kinds of external terminal blocks which are used to connect signals. These multiplexers support three types of connection modes: 1-wire mode, 2-wire mode and 4-wire mode. You can select your desired multiplexer and terminal block by referring to the following table.

		MC3120	MC3132	MC3164	MC3324
Number of Channels		20	32	64	20+4
		2-wire mode or 4-wire mode	2-wire mode or 4-wire mode	1-wire mode	2-wire mode or 4-wire mode
Scan Speed		60Ch/s	60Ch/s	60Ch/s	60Ch/s
Terminal Block		M3TB20	M3TB32	M3TB64	M3TB24
DC Voltage		✓	✓	✓	✓
AC Voltage		✓	✓	✓	✓
DC Current					✓
AC Current					✓
2WR		✓	✓	✓	✓
4WR		✓	✓		✓
Frequency		✓	✓	✓	✓
Period		✓	✓	✓	✓
Temperature	TC	✓	✓		✓
	RTD	✓	✓	✓	✓
	RTD 4W	✓	✓		✓
	Thermistor	✓	✓	✓	✓
Any Sensor	DC Voltage	✓	✓	✓	✓
	DC Current				✓
	2WR	✓	✓	✓	✓
	4WR	✓	✓		✓
	Frequency	✓	✓	✓	✓

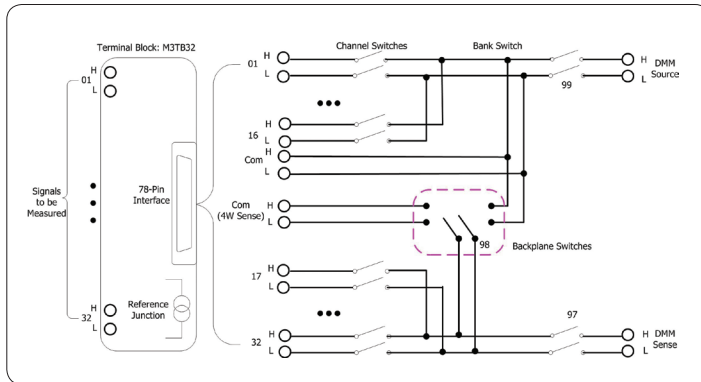
MC3120 20-Channel Multiplexer

- 20-channel multiplexer
- All 20 channels switch both HI and LO inputs
- Support 4-wire measurement
- The signal to be tested is connected through the M3TB20 terminal block
- Can be connected with MC3065



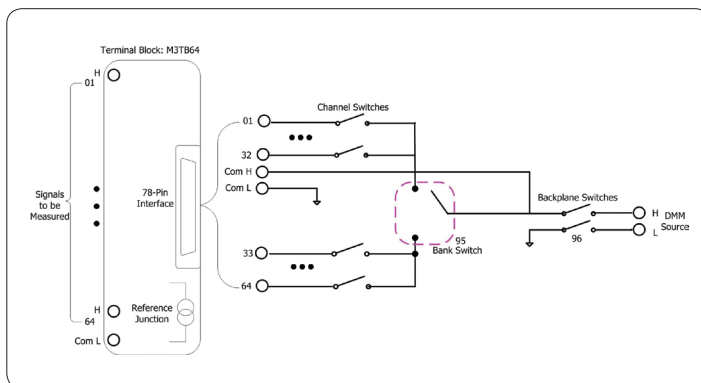
MC3132 32-Channel Multiplexer

- 32-channel multiplexer
- All 32 channels switch both HI and LO inputs
- Support 4-wire measurement
- The signal to be tested is connected through the M3TB32 terminal block
- Can be connected with MC3065



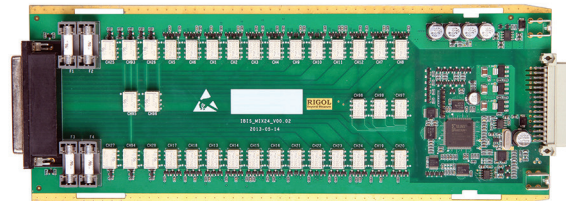
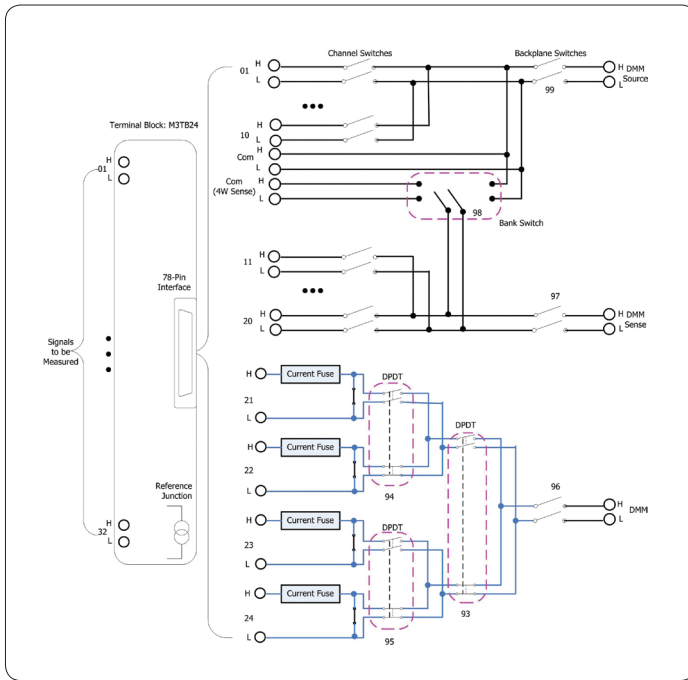
MC3164 64-Channel Single-ended Multiplexer

- 64-channel single-ended multiplexer
- All 64 channels can switch HI input only
- Doesn't support 4-wire measurement
- The signal to be tested is connected through the M3TB64 terminal block
- Can be connected with MC3065



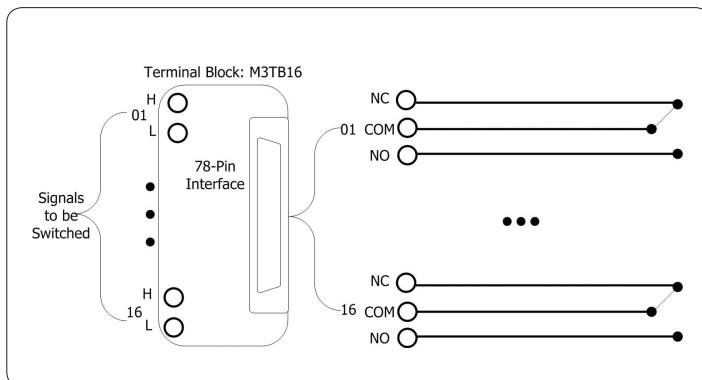
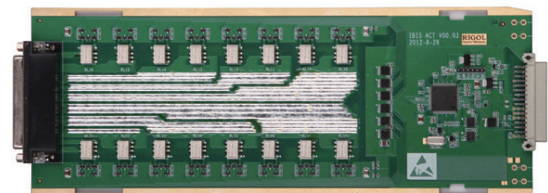
MC3324 20-voltage-channel+4-current-channel Mixed Multiplexer

- Mixed multiplexer with 20 voltage channels and 4 current channels
- All 20 voltage channels switch both HI and LO inputs
- 20 voltage channels support 4-wire measurement
- 4 current channels are used to measure DC current or AC current
- The signal to be tested is connected through the M3TB24 terminal block
- Can be connected with MC3065



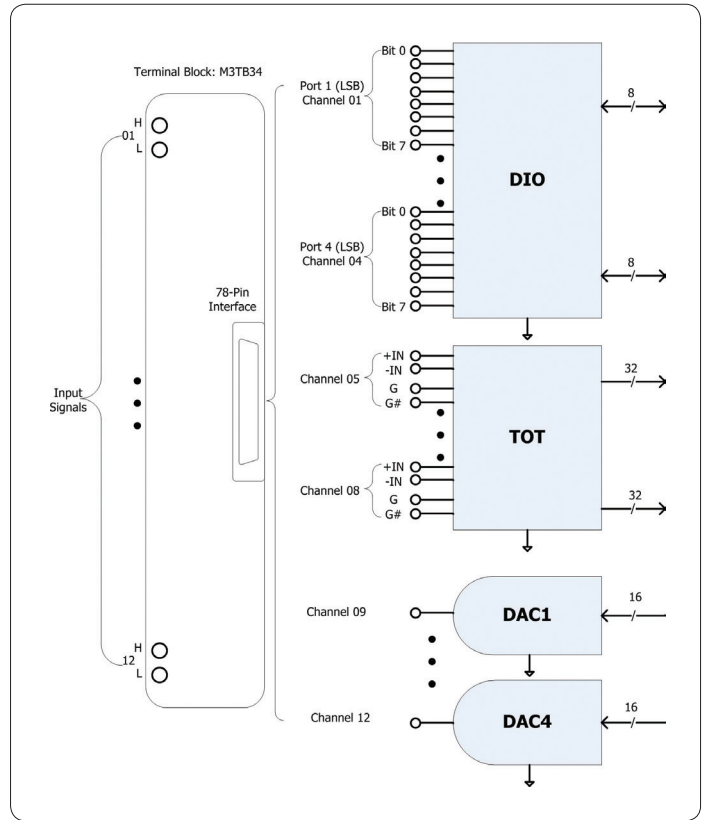
MC3416 16-channel Actuator

- 16-channel actuator
- Can connect signal to the device under test or enable external device
- Any of the 16 channels can switch to Normally-Open (NO) and Normally-Closed (NC) states
- The signal is connected through the M3TB16 terminal block



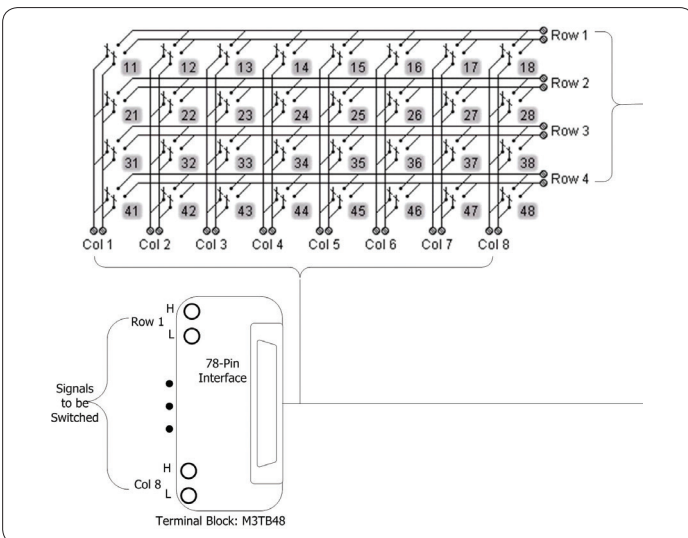
MC3534 Multifunction Module

- Multifunction module
- DIO: four 8-bit digital input/output ports
- TOT: four totalizer input terminals
- DAC: four analog output terminals
- The signal is connected through the M3TB34 terminal block



MC3648 4x8 Matrix Switch

- 4x8 two-wire matrix switch
- Used to connect multiple devices to multiple points on the device under test
- 32 two-wire cross points which can connect any combination of inputs and outputs at the same time
- The signal is connected through the M3TB48 terminal block





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