

Selector Guide

Plug-In Modules for 2700, 2701, 2750 Integra Mainframes

Module Selector Guide

This selector guide may prove helpful in identifying the best module for a specific application. Install up to five modules at a time in the Model 2750 mainframe or two modules in the Model 2700 or 2701 mainframe. Modules can be disconnected from internal DMM for routing external signals.

| Module | # Analog Inputs | Configuration | Type of Connector | Max. Voltage | Max. Switched Current | Bandwidth | Contact Life ¹ | Switch Speed | Other | |
|--------|-----------------|-------------------------|-------------------|---------------------------|-----------------------|-----------|---------------------------|------------------|--------|--|
| 7700 | 20 | Multiplexer w/CJC | 1×20 or two 1×10 | Screw terminals | 300 V | 1 | 50 MHz | 10 ⁸ | 3 ms | Maximum power = 125VA. 2 current measure channels. |
| 7701 | 32 | Multiplexer | 1×32 or two 1×16 | D-sub | 150 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | Maximum power = 125VA. |
| 7702 | 40 | Multiplexer | 1×40 or two 1×20 | Screw terminals | 300 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | Maximum power = 125VA. 2 current measure channels. |
| 7703 | 32 | Multiplexer | 1×32 or two 1×16 | D-sub | 300 V | 500 mA | 2 MHz | 10 ⁸ | 1 ms | Reed relays. |
| 7705 | 40 | Independent SPST | N/A | D-sub | 300 V | 2 A | 10 MHz | 10 ⁸ | 3 ms | Maximum power = 125VA. |
| 7706 | 20 | Multiplexer w/CJC | 1×20 or two 1×10 | Screw terminals | 300 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | 2 analog outputs. 16 digital outputs. Maximum power = 125VA. |
| 7707 | 10 | Digital I/O/Multiplexer | 1×10 or two 1×5 | D-sub | 300 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | 32 digital I/O. Maximum power = 125VA. |
| 7708 | 40 | Multiplexer w/CJC | 1×40 or two 1×20 | Screw terminals | 300 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | Maximum power = 125VA. |
| 7709 | 48 | Matrix | 6×8 | D-sub | 300 V | 1 A | 2 MHz | 10 ⁸ | 3 ms | Connects to internal DMM. Daisy chain multiple cards for up to a 6×40 matrix. Maximum power = 125VA. |
| 7710 | 20 | Multiplexer w/CJC | 1×20 or two 1×10 | Removable screw terminals | 60 V | 0.1 A | 2 MHz | 10 ¹⁰ | 0.5 ms | Solid state relays, 60V max. 500 channels/second scan rate. |
| 7711 | 8 | Multiplexer | Dual 1×4 | SMA | 60 V | 0.5 A | 2 GHz | 10 ⁶ | 10 ms | Insertion loss <1.0dB @ 1GHz. VSWR <1.2 @ 1GHz. |
| 7712 | 8 | Multiplexer | Dual 1×4 | SMA | 42 V | 0.5 A | 3.5 GHz | 10 ⁶ | 10 ms | Insertion loss <1.1dB @ 2.4GHz. |

1. No load contact life. See card data sheet for additional specifications.

Integra Plug-In Module Accessories

| Module | Connector Type | Supplied Accessories | Available Accessories |
|--------|---|----------------------|---|
| 7700 | Oversized Screw Terminal | Strain Relief | 7401 T/C wire |
| 7701 | 50-pin female D-sub & 25-pin female D-sub | 7789 connector kit | 7790 connector kit, 7705-MTC-2 & 7707-MTC-2 cables |
| 7702 | Oversized Screw Terminal | Strain Relief | — |
| 7703 | Two 50-pin female D-sub | 7788 connector kit | 7705-MTC-2 cable |
| 7705 | Two 50-pin female D-sub | 7788 connector kit | 7705-MTC-2 cable |
| 7706 | Screw Terminal | Strain Relief | 7401 T/C wire kit |
| 7707 | 50-pin male D-sub & 25-pin female D-sub | 7790 connector kit | 7789 connector kit, 7705-MTC-2 & 7707-MTC-2 cables |
| 7708 | Oversized Screw Terminal | Strain Relief | 7401 T/C wire kit |
| 7709 | 50-pin female D-sub & 25-pin female D-sub | 7790 connector kit | 7789 connector kit, 7705-MTC-2 & 7707-MTC-2 cables |
| 7710 | Quick Disconnect Screw Terminal | Strain Relief | 7401 T/C wire kit |
| 7711 | SMA | — | 7711-BNC-SMA and 7712-SMA-N adapters, 7712-SMA-1 and S46-SMA-0.5, -1 SMA cables, 7051-2, -5, -10 BNC cables |
| 7712 | SMA | — | 7712-SMA-N adaptor, 7712-SMA-1 & S46-SMA-0.5,-1 SMA cables |

Use with Integra Series mainframes: 2700, 2701, 2750

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