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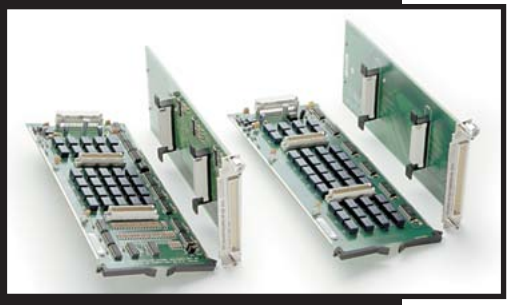
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7036
7037-D

40-channel Isolated Switch Card
30-channel Digital I/O Card



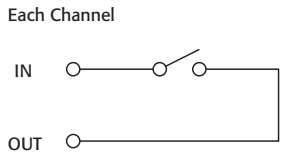
The Model 7036 and 7037-D single-pole relay switching cards are well-suited for configuring automated test systems for portable devices. The Model 7036 offers 40 independent channels of 1-pole Form A switching, while the Model 7037-D provides 30 channels, plus ten independent digital inputs and ten independent digital outputs for control applications. The 7036 provides a 96-pin mass terminated connector. The 7037-D has two heavy duty 50-pin D-sub connectors at the ends of short cables. The D-sub connector version is designed for industrial/production applications where repeated connects/disconnects with external cables are required. The 7037-DT is an extra connector board for the 7037-D card that can be used to upgrade a standard 7037-D to a mass terminated connector.

- **Mass terminated connection**
- **1A switch rating**
- **<100pA offset current**
- **<4µV contact potential**

Ordering Information

7036	**Single-Pole Relay Card**
7037-D	**Single-Pole Relay Digital I/O Card with D-Sub Connectors**

Relay switch configuration for Models 7036 and 7037-D



MODEL 7036 SPECIFICATIONS

RELAY SWITCH SPECIFICATIONS

RELAY SWITCH CONFIGURATION: 40 independent channels of 1-pole switching.

CONTACT CONFIGURATION: 1 pole Form A.

CONNECTOR TYPE: 96-pin male DIN card connector.

MAXIMUM SIGNAL LEVEL: 60V DC, 30V rms, 42V peak betwen any two inputs or chassis, 1A switched. 30VA (resistive load).

CONTACT LIFE: Cold Switching: 10^8 closures.
At Maximum Signal Levels: 10^5 closures.

CHANNEL RESISTANCE (per conductor): <1Ω.

CONTACT POTENTIAL: <4µV per contact.

OFFSET CURRENT: <100pA.

ACTUATION TIME: 3ms.

ISOLATION: Channel to Channel: $>10^9$Ω, <25pF.
Common Mode: $>10^9$Ω, <100pF.

CROSSTALK (1MHz, 50Ω Load) <–40dB.

INSERTION LOSS (50Ω Source, 50Ω Load): <0.3dB below 1MHz, <3dB below 10MHz.

RELAY DRIVE CURRENT (per relay): 16mA.

7036/7037-D GENERAL

EMC: Conforms to European Union Directive 89/336/EEC.

SAFETY: Conforms to European Union Directive 73/23/EEC (meets EN61010-1/IEC 1010).

ENVIRONMENT: Operating: 0° to 50°C, up to 35°C <80% RH. **Storage:** –25° to 65°C.

MODEL 7037-D SPECIFICATIONS

RELAY SWITCH SPECIFICATIONS

RELAY SWITCH CONFIGURATION: 30 independent channels of 1-pole switching.

CONTACT CONFIGURATION: 1 pole Form A.

CONNECTOR TYPE: Cables with 50-pin male and female D-sub connectors.

MAXIMUM SIGNAL: 110V DC, 110V rms, 155V peak between any two inputs or chassis, 1A switched, 30VA (resistive load).

CONTACT LIFE: Cold Switching: 10^8 closures.
At Maximum Signal Levels: 10^5 closures.

CHANNEL RESISTANCE (per conductor): <1.25Ω.

CONTACT POTENTIAL: <4µV per contact.

OFFSET CURRENT: <100pA.

ACTUATION TIME: 3ms.

ISOLATION: Channel to Channel: $>10^9$Ω, <25pF.
Common Mode: $>10^9$Ω, <100pF.

CROSSTALK (1MHz, 50Ω Load): <–40dB.

INSERTION LOSS (50Ω Source, 50Ω Load): <0.25dB below 1MHz, <3dB below 10MHz.

RELAY DRIVE CURRENT (per relay): 16mA.

DIGITAL I/O SPECIFICATIONS

DIGITAL I/O CAPABILITY: 10 independent inputs. 10 independent outputs.

OUTPUT:

Configuration: 10 open-collector drivers with factory installed 10kΩ pull-up resistors. Each driver has an internal flyback diode.

Pull-Up Voltage: 5V internally supplied, external connection provided for user-supplied voltage up to 42V max. Outputs short circuit protected up to 25V.

Maximum Sink Current:
Per Channel: 250mA. **Per Card:** 1A.

Logic: Hardware user configurable for negative or positive true logic levels.

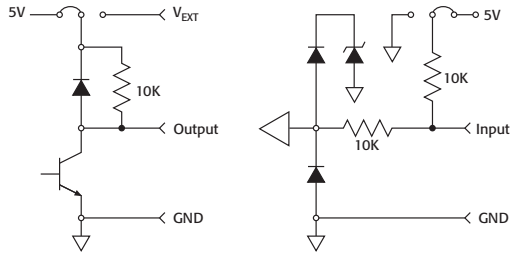
INPUT:

Configuration: 10 inputs with internal 10kΩ pull-up resistors provided. Input resistors can be set for pull-up or pull-down configuration.

MAXIMUM VOLTAGE LEVEL: 42V peak.

LOGIC: Positive true.

Digital I/O configuration for Model 7037-D



ACCESSORIES AVAILABLE

7011-KIT-R	96-pin Female Connector Kit (included)
7011-MTR	96-pin Male Bulkhead Mount Connector
7036-MTC-2	Mass Terminated Cable Assembly
7037-DT	Extra Connector Board for the 7037-D Card

SERVICES AVAILABLE

7036-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
7037-D-3Y-EW	1-year factory warranty extended to 3 years from date of shipment

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