

## Product Description

The 7014 provides four (1x4) 1-wire Multiplexers in a small space. This module provides the highest density general purpose switch, ideal for switching instrumentation and other general purpose switching applications. The 7014 has been designed with several exceptional features that make it stand out from competitive products.

■ **3U Form Factor** – The 3U PXI format is the most popular PXI size, and is compatible with all brands of PXI approved products.

### ■ Coaxially Shielded Reed Relays –

- Shielding allows a characteristic 50Ω impedance to be maintained, while dramatically increasing Noise Immunity.
- Reed Relays are rated for >1Billion cycles vs 1M for standard Relays.
- These relays use Ruthenium at the contact area in a hermetically sealed environment, making them ideal in “Dry” or “low Voltage” switching applications. Unlike, ordinary gold plated non-sealed relays which depend on switching arcs to keep contacts clean and will build up resistance in Dry switching applications.

■ **Software Re-configurable** – The 1x4 groups of relays are connected together with additional relays, allowing the board to be configured “on-the-fly” either during a test program, or between applications.

■ **Dual Row Connectors** – Selected to enable use of low cost Twisted Pair Ribbon Cable and IDC connectors.

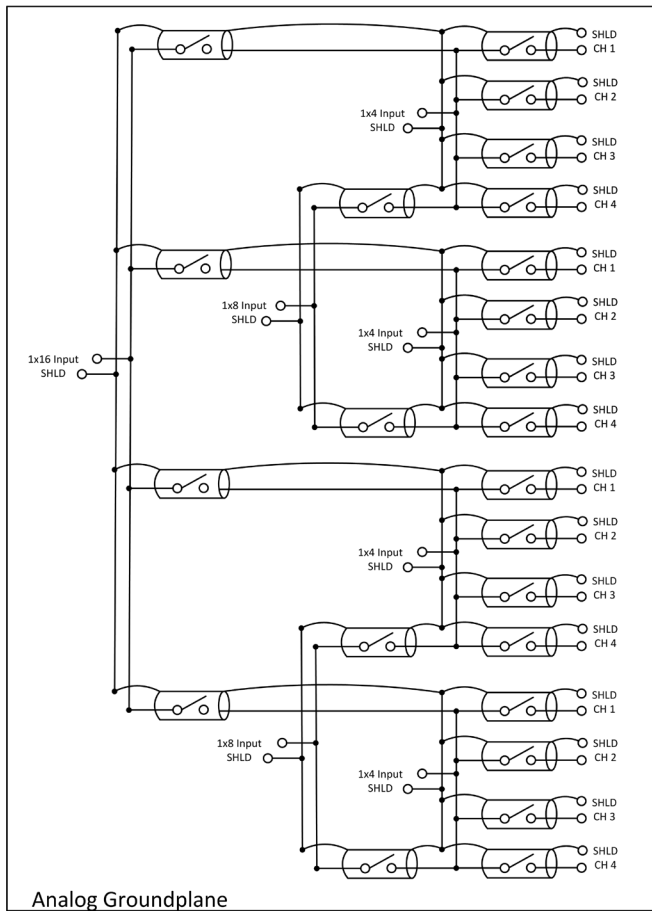
## Capabilities

- 4(1x4) 1-wire Multiplexers
- Configurable as:
- 4(1x4)
- 2(1x8)
- 1(1x16)
- Bandwidth = 150MHz
- Voltage Max = 220VDC, 220VACpk
- Current Max = 1A (carry)

## Recommended Uses

- **Instrument Switching** – Low Crosstalk and high Bandwidth makes this module ideal for Higher Frequency applications as well as General Purpose switching.
- **General Purpose switching** – the ease of expansion using this module makes it ideal for all Mid Frequency switching applications.





- All ASCOR cards have built-in circuitry to verify both the control signal from the programming register, as well as verifying the relay coil is intact.
- All Switching modules feature built-in memory to maintain the service record of the unit with time stamping.
- All Modules carry a full 3 year Warranty

## Specifications

### Electrical

- Voltage Max = 220VDC, 220VACpk
- Current Max = 1A (carry)
- Max Power = 10W
- Bandwidth = 150MHz
- Insertion Loss = -0.4dB @ 100MHz
- Crosstalk = -50dB @ 100MHz
- Life Expectancy = 1B cycles
- Contact Resistance < 0.25mΩ
- Connector AMP 104129-9

### Environmental

#### Temperature

- Operating 0° to 50°C
- Storage -40° to 75°C

#### Humidity (non-condensing)

- Operating 10 to 90%
- Storage 0 to 95%

### Mechanical

- 3U PXI
- Weight 0.5 lbs

## Ordering Information

Model #	Description	Manufacturer #
7014	4(1x4) 1-wire Multiplexers, 150MHz (Shielded)	91000050
	Set of Mating connectors for one Module	89800700