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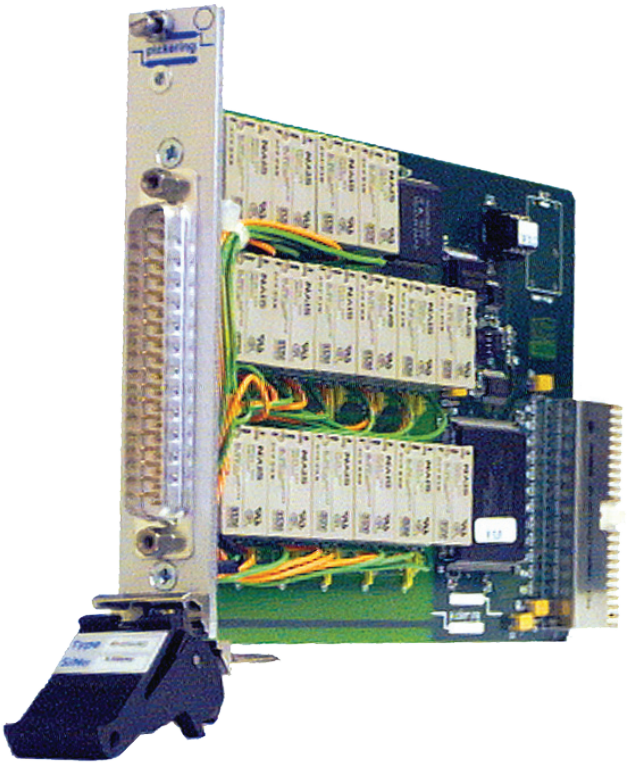
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Find the *Pickering 40-650-002* at our website: ***Click HERE***

40-650
Power Multiplexer Module

- 16-Channel Power Multiplexer
- 2-Pole Switching
- 5A Current Rating With 175W/1250VA Maximum Power
- Hot Switch to 125VDC/250VAC
- Cold Switch to 400VDC/250VAC
- VISA, IVI & Kernel Drivers Supplied for Windows XP/Vista/7/8
- Supported by PXI or LXI Chassis
- 3 Year Warranty



Pickering Interfaces have a range of power switching PXI modules, available in relay, matrix or multiplexer configurations. Connections are made via a front panel 37-Way D-Type male connector.

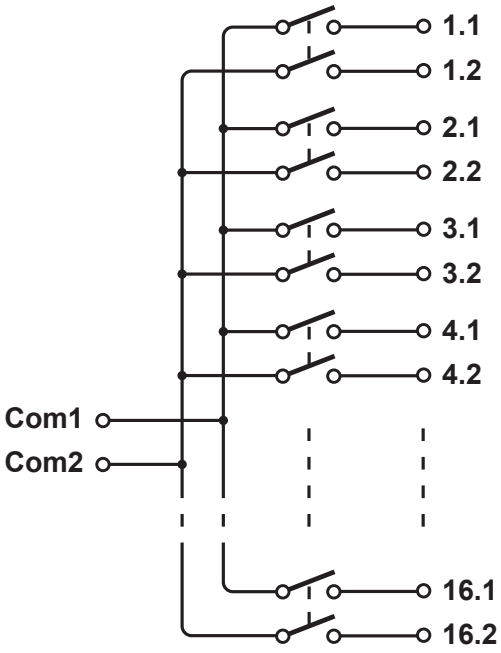
Model 40-650-002 is a 16-Channel Power Multiplexer, suitable for switching inductive/capacitive loads up to 5A at 125VDC/250VAC

Power Multiplexer Modules are intended for switching heavy AC or DC loads or for slaving up to large external relays, contactors and solenoids.

The 40-650 Power Relay Module is suitable for applications requiring switching of either AC mains or DC voltage.

Power Relay Type

The 40-650 is fitted with electro-mechanical power relays, gold-flash over silver alloy. A **Spare Relay is** built onto the circuit board to facilitate easy maintenance with minimum downtime.



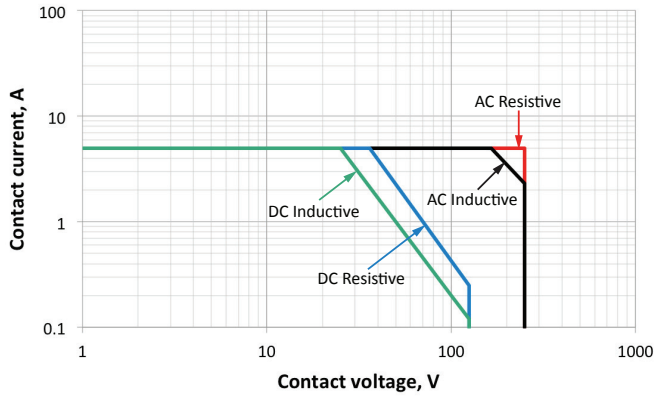
Schematic of 40-650 Power Multiplexer Module

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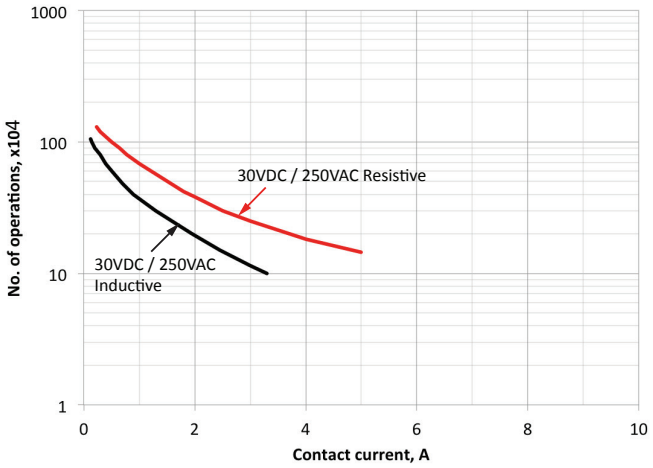
Switching Specification

Contact Type:	Gold flash over silver alloy
Cold Switching Capacity Maximum Current: Maximum Voltage:	 5A 400VDC/250VAC
Hot Switching Capacity Maximum Current: Maximum Voltage: Maximum Power:* Min. Switching Capacity:	 5A 125VDC/250VAC 175W/1250VA 10mA, 5VDC
Max Standoff Voltage: Initial Path Resistance, On: Path Resistance, Off:	400VDC <250mΩ $>10^9\Omega$
Bandwidth:	>20MHz
Operate Time:	10ms typical
Expected Life (operations) - resistive load Mechanical Life: At Max. Switch Capacity:	 $>5x10^7$ $>1x10^5$

* For variation of maximum hot switching capacity of voltage with current refer to plot.



40-650 Current/Voltage Curve



40-650 Current/Operating Life Curve

Power Requirements

+3.3V	+5V	+12V	-12V
0	360mA (280mA typ)	0	0

Mechanical Characteristics

Single slot 3U PXI (CompactPCI card).
3D models in a variety of popular file formats are available on request.

Connectors

PXI bus via 32-bit P1/J1 backplane connector.
Signals via a front panel 37-way male D-Type connector.

Product Order Codes

16-Channel Power Multiplexer, 2-Pole 40-650-002

Support Products

Spare Relay Kits

Kits of replacement relays are available for the majority of Pickering's PXI switching modules, simplifying servicing and reducing down-time. The relay kit for the 40-650 module is as follows:

91-100-052 kit for 40-650-002

For further assistance, please contact your local Pickering sales office.

Mating Connectors & Cabling

For connection accessories for the 40-650 module please refer to the **90-007D** 37-way D-type Connector Accessories data sheet where a complete list and documentation can be found for accessories, or refer to the Connection Solutions catalog.

Programming

Pickering provide kernel, IVI and VISA (NI and Agilent) drivers which are compatible with 32/64-bit versions of Windows including XP, Vista, 7 and 8 operating systems. The VISA driver is also compatible with Real-Time Operating Systems such as LabVIEW RT. For other RTOS support contact Pickering.

These drivers may be used with a variety of programming environments and applications including:

- **National Instruments** products (LabVIEW, LabWindows/CVI, Switch Executive, MAX, TestStand, etc.)
- **Microsoft Visual Studio** products (Visual Basic, Visual C+)
- **Agilent** VEE
- **Mathworks** Matlab
- **Geotest** ATE Easy
- **MTQ Testsolutions** Tecap

Drivers for popular Linux distributions are available, other environments are also supported, please contact Pickering with specific enquiries.

Operating/Storage Conditions

Operating Conditions

Operating Temperature:	0°C to +55°C
Humidity:	Up to 90% non-condensing
Altitude:	5000m

Storage and Transport Conditions

Storage Temperature:	-20°C to +75°C
Humidity:	Up to 90% non-condensing
Altitude:	15000m

PXI & CompactPCI Compliance

The module is compliant with the PXI Specification 2.2. Local Bus, Trigger Bus and Star Trigger are not implemented.

Uses 33MHz 32-bit backplane interface.

Safety & CE Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2001, EMC Immunity EN61000-6-1:2001, Emissions EN55011:1998.

PXI & LXI Chassis Compatibility

Compatible with all chassis conforming to the 3U PXI and 3U cPCI specification. Compatible with Legacy and Hybrid peripheral slots in a 3U PXI Express chassis.

Compatible with Pickering Interfaces LXI Modular Switching chassis. For information on driving your switching solution in an LXI environment refer to the LXI Product Guide.



Latest Details

Please refer to our Web Site for Latest Product Details.

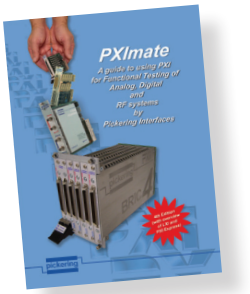
www.pickeringtest.com



Please refer to the Pickering Interfaces "**Connection Solutions**" catalog for the full list of connector/cabling options, including drawings, photos and specifications. This is available in either print or as a download. Alternatively our web site has dynamically linked connector/cabling options, including pricing, for all Pickering PXI modules.



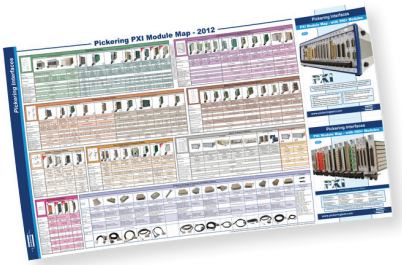
"**The Big PXI Catalog**" gives full details of Pickering's entire range of PXI switch modules, instrument modules and support products.
At over 500 pages, the Big PXI Catalog is available on request or can be downloaded from the Pickering website.



Ever wondered what PXI is all about?

Pickering Interfaces' "**PXImate**" explains the basics of PXI and provides useful data for engineers working on switch based test systems.

The PXImate is available free on request from the Pickering website.



The "**PXI Module Map**" - a simple fold-out selection guide to all Pickering's 600+ PXI Modules.

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Pickering Interfaces maintains a commitment to continuous product development, consequently we reserve the right to vary from the description given in this data sheet.

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