Available as 2, 4 or 8 Slot

del Family

nfigurations

/lax Switch Voltage

40-880 | 40-870 | 40-830 | 40-710

Triple or Hex SPDT

4x4 Fault Matrix, 248x4 Fault Matrix, 80x4 Fault Matrix, 160x4 Fault Matrix,

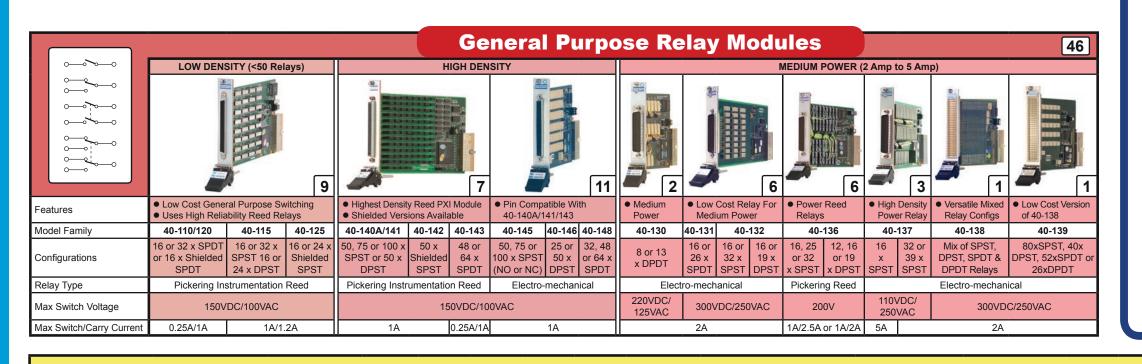
High Density Fault Insertion Breakout Matrix

Available With 2 or 3 Pin Breakout

Quad SPDT

40-754

9 or 17 x SPDT



Pickering LXI Modular Chassis & Associated Modules



chassis are capable of hosting Pickering's extensive range of Switching and Test & Measurement modules in an LXI environment, allowing remote control over a gigabit Ethernet connection.

The 60-102B and 60-103B LXI Modular

Over 600 modules available from Pickering are supported by the LXI Modular Chassis.

60-102B, 7-Slot LXI Modular Chassis



60-103B, 18-Slot LXI Modular Chassis

Both chassis now feature front

panel display of IP address

They range from general purpose relays, matrices, multiplexers and RF switches to special switching functions such as fault insertion and serial communications. Also supported are a selection of T&M modules such as programmable resistors, digital I/O, power supplies, battery simulators and attenuators. Select the modules you require to be remotely controlled via Ethernet from



All of the modules illustrated are compliant to the PXI architecture and therefore can also be used in any PXI or PXIe Hybrid chassis. For example, a 60-103B chassis can be fitted with a combination of high density relay modules, matrix modules, multiplexers, power

relays, microwave relays and programmable resistors as shown above. This gives the user enormous flexibility to define a switching/ T&M system which exactly meets their requirements.

For more information go to www.pickeringtest.com/lxi/

		Hi	gh I	Pow	er & F	ligh '	Volt	age	Rela	y Mod	lules	29			
	O—O HIGH POWER (5 Amp to 40 Amp)										HIGH VOLTAGE				
		4	all aggrego (aggrego)	3	6			8	W second	3	2	3			
eatures	High PowDPST and		High I SPST	Power or DPST	High DensityHigh Current	Very High Suitable		otive Test	• 50A Peak Current	• 120A Peak Current	High Voltage Reed Relays	High Voltage Power Relays			
Model Family	40-150/151	40-155/156	40-	160	40-161	40-170	40-180	40-181	40-182	40-183	40-310	40-330			
Configurations	8 or 12 x DPST	8 or 16 x SPDT	10 or 20 x SPST	10 x DPST	10, 12, 16 x SPST or 6, 12 x SPDT	2 x SPST or 2 x DPST	2 or 4 x SPST	2 x SPDT	3 or 6 x SPST	6 x SPST	8 or 16 x SPST	12, 18 or 24 x SPST			
Relay Type				Electro	-mechanical				Solid	l State	Rhodium Reed	Electromechanical			
Max Switch Voltage	125VDC/ 250VAC	35VDC/ 250VAC		VDC/ VAC	300VDC/ 250VAC	30VDC/ 270VAC		DC or /DC	200VDC/ AC peak	40VDC/ AC peak	1000VDC/1	1000VAC peak			
Max Switch/Carry Current	5	iΑ	10A	8A	16A	30A	20A	or 40A	10A	40A	0.5A	5A			

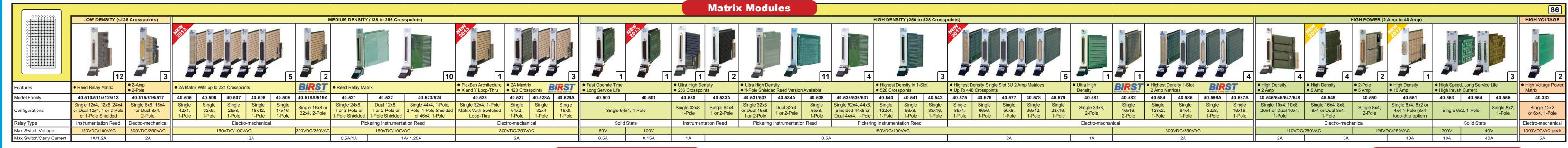
Configurations

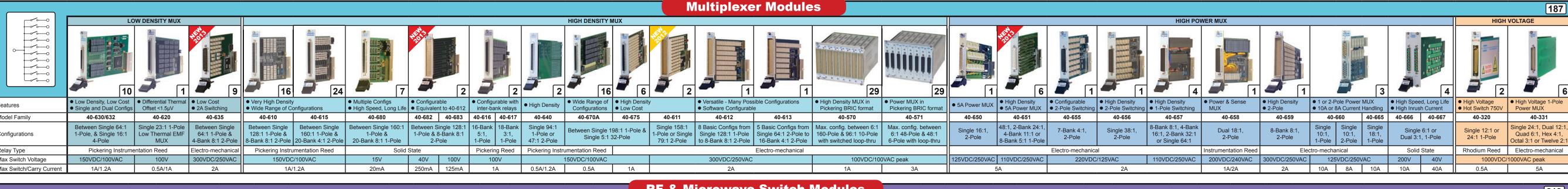
BRIC™ Matrix Modules

04x4, 552x8, 276x16, 360x8, 180x16, 528x4, 264x8, 132x16, 60x32, 3

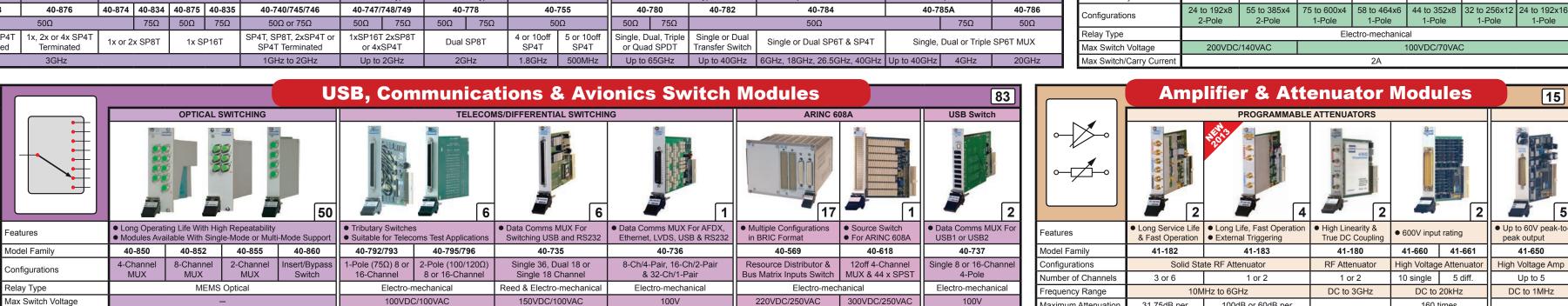
40-565A | 40-566A | 40-568 | 40-596 | 40-567 | 40-597 | 40-598

◆ High Density 2-Pole Matrix
 ◆ Very High Density 1-Pole Matrix





-u		John State		rickering reed 1	r ickering matrumentation	ii Reed			Liec	otro-mechanicai					Liectro-ine	Chanicai		motiumentation ix		licciio-iiicc	Jilaliloai		John State	Trilodidiii Treed	Liectro-mechanical	J	
	15V	40V	100V	100V	150VDC/1	100VAC		300\	VDC/250VAC		100VE	DC/100VAC peak	125	5VDC/250VAC 110V	DC/250VAC 22	20VDC/125VAC	110VDC/250VAC	200VDC/240VA	300VDC/250VA	.C 1	125VDC/250VA	.C 20	00V 40V	1000VDC/	/1000VAC peak	Max Switch Voltage	و ا
	20mA	250mA	125mA	1A	0.5A/1.2A 0.5	5A 1	1A		2A		1A	3A	4	5A		2A		1A/2A	2A	10A	8A	10A 1	0A 40A	0.5A	5A	Max Switch/Carry Co	urrent
						'																'					
							RF 8	· Micro	wave S	witch N	lodules														213	0000000	$\overline{\gamma}$
				RF M	MATRIX								RF M	IULTIPLEXER								MICRO	WAVE SWITCHIN	G			
And of	1	8	2		3		12	2	4	1	2 4	6		8	18	12	4		9,		30		12		35	Features	
	Performance	Expandable	Expandable	X and Y Isolation				Terminated Cha		High Performanc		3GHz Bandwidth		nance	Up to 2GHz Bandwidth			Very High Density									
• Comp		• Fight Performance		Switching	Thru			High Performan		Low Cost		Terminated Com.			Wide Connector Choice	- 71	Connector Types		Choice of Co			 Faster Operat 		Terminated Options	Bandwidth	Model Family	
		40-877 40-837		40-725	40-726A		7/728/729	40-881	40-882	40-872 40-83		40-876		34 40-875 40-835		40-747/748/749	40-778	40-755	40-780		40-782		0-784	40-785A	40-786	Configurations	2
	50Ω	75Ω	500	Σ 75Ω	50Ω 75Ω	50Ω	75Ω		50Ω	75Ω		50Ω	759	Ω 50 Ω 75 Ω	50Ω or 75Ω	50Ω 75Ω	50Ω 75Ω	50Ω	50Ω 7	'5Ω		50	0Ω	750	50Ω		
S	Single 4x4	Single or Dual	8x2	8x9	12x8	16x4 16	6x2 or 8x4	1x or 2x SP6T	1x, 2x, 3x or 4x		1x or 2x SP4T		1x or 2x SP8	T 1x SP16T	SP4T, SP8T, 2xSP4T or	r 1xSP16T 2xSP8T	Dual SP8T		0off Single, Dual,		ingle or Dual	Single or Du	ıal SP6T & SP4T	Single, Dual or	r Triple SP6T MUX	Relay Type	
		2x2	JAZ	0.0				Terminated	SP4T Terminated	1 2.0 1.0 1.0	Terminated	Terminated	1 51 2 x 51 5		SP4T Terminated	or 4xSP4T		SP4T SP		-	ansfer Switch					Max Switch Voltage	
	6GHz	2.5GHz	1.5GHz	500MHz 250MH	Hz 300MHz 250MHz	z 300MHz	100MHz	60	GHz			3GHz			1GHz to 2GHz	Up to 2GHz	2GHz	1.8GHz 500N	1Hz Up to 65GI	Hz U	Jp to 40GHz	6GHz, 18GHz	, 26.5GHz, 40GHz	z Up to 40GHz 4GH	Hz 20GHz	Max Switch/Carry Cu	urrent



Max Switch/Carry Curren	t			1A/1.2	A	1		10A(m	atrix) 8A(br	eakout)		2A		40A	10A	20A (1A min)	20A	1A	5A		2A		5A	
									Prog	ram	ıma	ble	Res	isto	r Modu	les								40
١						RESISTOR	MODULI	S										PRECISIO	N RESISTOR	MODULES				
			6		4	2				8				8			2		4		2		* Chinamanananananananananananananananananan	Į (i
-eatures	Fixed ValueUser Spece	ue Resistor Mo cified Values	odules		al Relay o Extend nce Range	Up to 15W Resistor Load			rammable F vailable	Resistor		Density Pot m Options	entiometer Available	Module	Very High AccuFine Setting Re		ty	Emulates RHigh Accura Resolution		● Emulates R Gauge Brid			Software Co Open Simu	
Model Family	40-280	40-281	40-282	40-290	40-291	40-292		40-	295			40-	296		40-260	40	-261	40-	262	40	-265		40-297	
Configurations	Fixed Value Selectable Resistors	Dual Selectable Resistors	Fixed Value Potential Divider	Progra	mmable sistor	Programmable Load Resistor	F	rogramma	able Resisto	r	Prog	ırammable	Potention	neter	Precision F	Programmable	Resistor	PT100 RTD Simulator	PT1000 RTD Simulator	Strain Gau	ge Simulator		High Densi ion Progra Resistor	
umber of Channels	24 or 48	12 or 24	12 or 24	2	4	1	10 or 18	5 or 10	5 or 10	3 or 6	5 or 9	2 or 4	2 or 4	1 or 3	3		2	6 o	r 18		6	18	9	6
Resolution		-		16-Bit	8-Bit	8-Bit	8-Bit	12-Bit	16-Bit	24-Bit	8-Bit	12-Bit	16-Bit	24-Bit	<10mΩ	<2mΩ	<15mΩ	<8mΩ	<90mΩ	<2mΩ	<25mΩ	1Ω	0.25Ω	0.1250
ccuracy		User Specifie	d	0.	5%	5% ±0.5Ω		±0.5% (±	1% >1MΩ)			±0.5% (±1	l% >1MΩ)		0.1%	±0.08%	±70mΩ	0.	1%	0.03%	0.06%	Re	solution ±0).2%
Resistance Range	ı	User Specifie	d	0.5Ω to 32kΩ	0.5Ω to 128Ω	40Ω to 295Ω , 10Ω to 2.56 k Ω	0 to 255Ω	0 to 4kΩ	0 to 65kΩ	0 to 16MΩ	0 to 255Ω	0 to 4kΩ	0 to 65kΩ	0 to 16MΩ	90Ω to 8kΩ	1.5Ω to 2.9kΩ	10Ω to 36kΩ	90Ω to 250Ω	900Ω to 2500Ω	350Ω Bridge	3kΩ Bridge	1Ω to 230Ω	2Ω to 13.5kΩ	3Ω to 1.5MΩ

Fault Matrix, 1 or 2 Fault Bus

Electro-mechanical Electro-mechanical

40-191 40-192

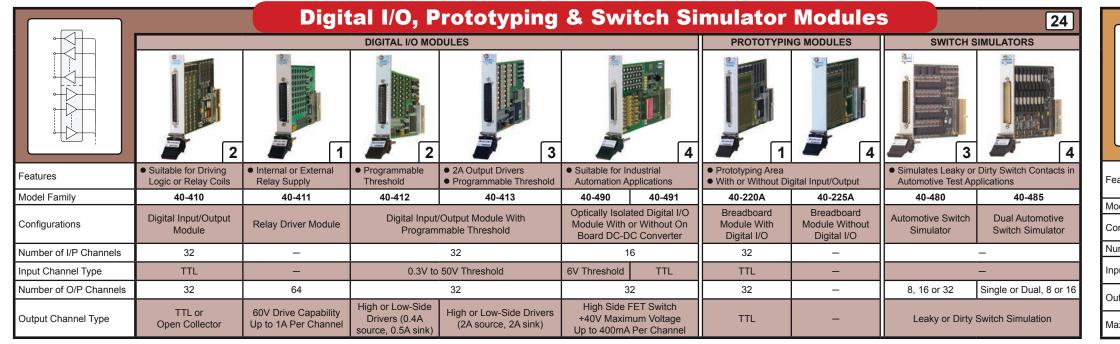
Solid State

40-193 40-194 40-195 40-196 40-197 40-198

1 or 2 Fault Buses (1 or 2 Fault Input) Channel Pairs, 8 Or 4 Fault Inputs Channel Pairs, 10 Or 5 Fault Inputs Channels, 4 Fault Inputs Channels, 4 Fault Inputs Input Inputs Input Inputs Input Inputs Input Inputs Input Inputs Input Inp

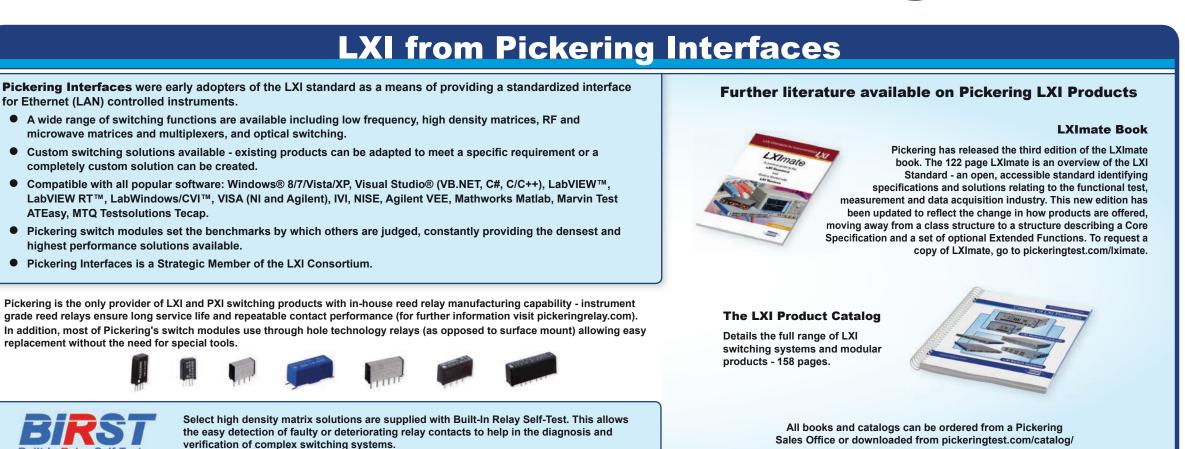
Electro-mechanical

Fault Insertion Modules

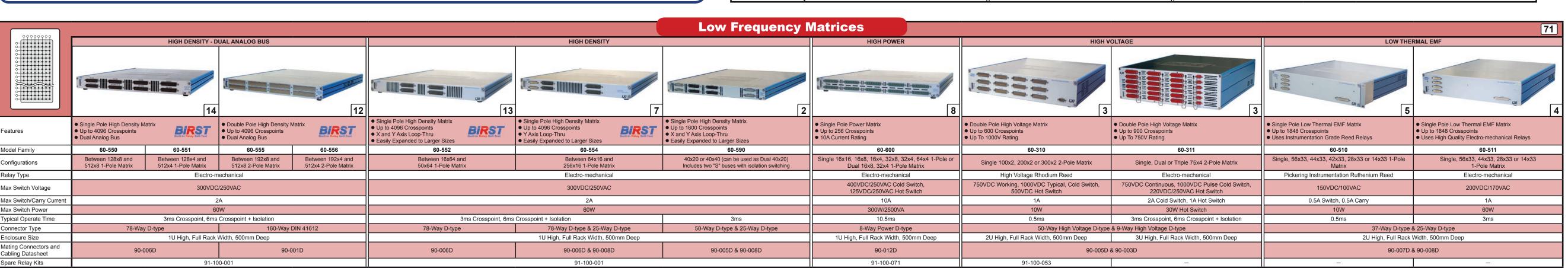


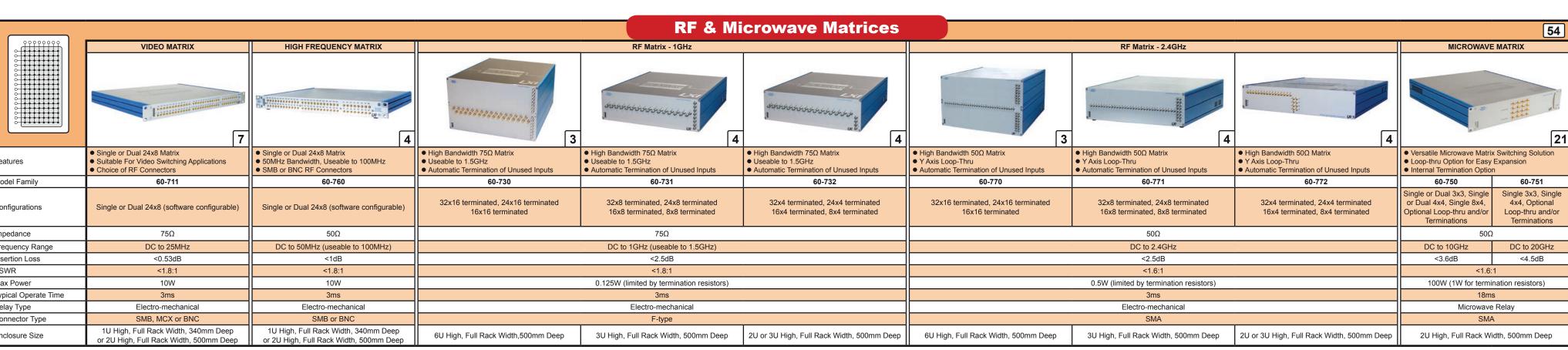
0.5A data, 2A power	or Amplification	channel	channel	63dB per chan	nel per channel	20 times
	Powe		& Batte	ry Simulat		es 41
	36	1	1	1	1	1
Features	Up to 4 Fixed Voltage Outputs	Dual Positive OutputsNon-Isolated	Dual Negative OutputsNon-Isolated	High Accuracy & Low NoiseRemote Sense	Ideal For Battery Stack Emulation	Simulate Power Supplies of Cellular Phones & Other Portable Battery Devices
Model Family	41-720	41-735	41-736	41-743	41-752	41-753
Configurations	Isolated Fixed Voltage Power Supply	Programmable Vol	tage Power Supply	Isolated Programmable Power Supply		rce with current source and rrent sink
Number of Channels	Up to 4	2	2	1	6	1
Input Voltage	+5V from PXI backplane	+12V from backplane or external supply	-12V from backplane or external supply	+5V from two PXI backplane slots	+3.3V, +5V & ±12V from PXI backplane	+5V from PXI backplane
Output Voltage	3.3V, 5V, 12V or 15V	Adjustable 0 to +10V	Adjustable 0 to -10V	Adjustable 0 to 48V	Adjustable 0 to 7V Stackable to 700V	Adjustable 0 to 6V
Max Current	4A (3.3V option)	1A per (Channel	2A (up to 20V)	300mA Source 100mA Sink	2.8A Source 0.5A Sink

Pickering LXI Ethernet Switch Systems

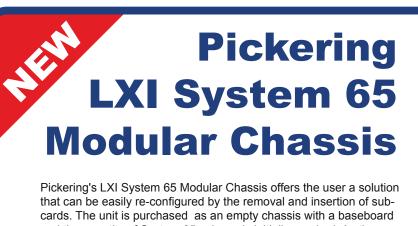


		RF & Microway	e Multiplex	ers		21			
	VIDEO MUX	RF MUX - HIGH ISOLATION		MICROWAVE MUX					
		2			12	4			
 High Performance Multiplexer Suitable For Video Switching Applications Automatic Termination of Unused Inputs 		 High Performance 12-Channel Multiplexer 1GHz Bandwidth Single or Dual Multiplexer Banks 				High Performance 6-Channel Multiplexer Up to 16 Multiplexer Banks Low Loss High Isolation			
Model Family	60-721A	60-722		60-800		60-820			
Configurations	24, 48, 72, 96, 120 or 144 Channel MUX With Terminations	Single or Dual 12 Channel MUX	6 Channel MUX With 4, 8, 12 or 16 Banks			6 Channel MUX With 4, 8, 12 or 16 Banks			
mpedance	75Ω	75Ω	50Ω			75Ω			
requency Range	1GHz	1GHz	18GHz		26.5GHz	2.5GHz			
nsertion Loss	3.5dB	1.3dB	0.5dB		0.7dB	0.3dB			
/SWR	1.7:1	1.5:1	1.5:1		1.5:1	1.3:1			
Max Power	0.5W (limited by termination resistors)	400W	240W	1W Ter	minated	400W			
ypical Operate Time	5ms	20ms			18	ms			
Relay Type	Electro-mechanical	Microwave Relay			Microwa	ave Relay			
Connector Type	F-Type	F-Type		SMA		DIN 1.6/5.6			
Enclosure Size	2U or 3U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep			2U High, Full Rack \	Width, 500mm Deep			

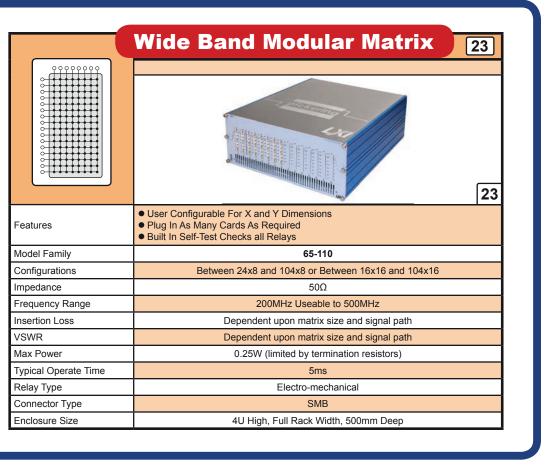




	Optical Sv	vitching 36
	FIBER OPTIC I	MULTIPLEXERS
	्री क्षेत्रकेत्रकेत्रकेत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत	THE PERSON OF U.S.
Features	 Single-Mode Fiber Support MEMS Based Actuation For Long Life and Fast Operation Loop-Thru Option For Easy Expansion 	Multi-Mode Fiber Support MEMS Based Actuation For Long Life and Fa Operation Loop-Thru Option For Easy Expansion
Model Family	60-850	60-851
Configurations	Single 8-Channel, Dual 4-Channel, Dual 8-Channel, Single 16-Channel or Single 32-Channel	Single 8-Channel, Dual 4-Channel, Dual 8-Channel, Single 16-Channel or Single 32-Channel
Switching Technology	MEMS (Micro Electro	-Mechanical Systems)
Wavelength	1240nm to 1640nm	700nm to 1700nm
Internal Fiber Type	SM 9/125	MM 62.5/125
Typical Operate Time	11	ms
Cycle Rate	500	/sec
Connector Type	FC/APC, FC/PC, SC/PC, MU, LC	SC, ST
Enclosure Size	111 High, Full Rack	Width, 340mm Deep







	AC POWER MANAGEMENT SWITCH					
0	AC POWER MANAGEMENT SWITCH					
Features	 Provides a Controlled Startup of Test Systems Supports Up To 8 Instruments Settable Timing Interval and Sequence Permits Remote Re-Booting of Systems 					
Model Family	60-200					
Configurations	One Power Input, Eight Separately Controlled Power Outputs					
Switch Type	Electro-mechanical DPST					
Current Rating	6A Max Per Channel, 10A Max Total					
On/Off Initiation	Remotely or Via Front Panel Switch					
Timing	Output delay of 0 to 60s For Each Channel					
Emergency Shutdown	Push Button or Remotely via Front Panel Connector					
Connector Type	IEC Mains Connector					
Enclosure Size	1U High, Full Rack Width, 340mm Deep					

	Comprehe	nsive Range of Cabl	es & Connectors	
	MULTI-WAY CABLES & CONNECTORS		RF CABLES	More Information on Cables & Connectors
	photograph of the state of the			Cables & Connectors Map
Range of Connectors	Range of Connector Blocks	Range of Cables	Range of 50Ω & 75Ω Coaxial Cables	Outlines the range of cable and
Available Connector Types: 200 Way LFH 160 Way DIN 41612 96 & 68 Way SCSI Style Micro-D 50 Way IDC 78, 50, 37, 26, 25, 15 & 9 Way D-Type 50, 37 & 9 Way High Voltage D-type 20 Way GMCT (MS-M) 26 Way GMCT (MS-M) RF Coaxial 3, 4 & 8 Way Power D-Type	Available Connector Types: ■ 200 Way LFH ■ 160 Way DIN 41612 ■ 96 & 68 Way SCSI Style Micro-D ■ 50 Way IDC ■ 78, 50, 37, 25 & 9 Way D-Type	Available Connector Types: 200 Way LFH 160 Way DIN 41612 96 & 68 Way SCSI Style Micro-D 78, 50, 37, 26, 25, 15 & 9 Way D-Type 50, 37 & 9 Way High Voltage D-type 20 Way GMCT (MS-M) 26 Way GMCT (MS-M) RF Coaxial 3, 4 & 8 Way Power D-Type	Available RF Cables: • BNC to BNC 50Ω • SMB to SMB 50Ω • SMA to SMA 50Ω • μWave SMA to μWave SMA 50Ω • MCX to MCX 50Ω • SMB to BNC 50Ω • SMB to SMA 50Ω • F type to SMA 50Ω • BNC to BNC 75Ω	connector options available for LXI and PXI switching modules.
Connector Formats: Male or Female Straight or Right Angled PCB or Cable Mount Solder or Crimp With or Without Backshell Refer to the Cables & Connectors Catalog or individual connector data sheets to see which connector formats are available for each connector type.	Connector Block Formats: Shielded Module Mounted BRIC Mounted DIN Rail Mounted Screw Terminals Refer to the Cables & Connectors Catalog or individual connector data sheets to see which connector block formats are available for each connector type.	Cable Formats: Male to Male Male to Female Female to Female Male to Unterminated Female to Unterminated Lengths of 0.5m, 1m, 2m or Custom Refer to the Cables & Connectors Catalog or individual connector data sheets to see which cable formats are available for each connector type.	SMZ/type43 to SMZ/type43 75Ω 1.0/2.3 to 1.0/2.3 75Ω Mini SMB to Mini SMB 75Ω MCX to MCX 75Ω F type to F type 75Ω 1.6/5.6 to 1.6/5.6 75Ω Mini SMB to BNC 75Ω Mini SMB to BNC 75Ω Mini SMB to SMZ/type43 75Ω Mini SMB to 1.0/2.3 75Ω All cables are available in 0.1m, 0.25m, 0.5m, 1m or custom lengths.	Cables & Connectors Catalog Details the available cable and connector options Pickering can supply for any module in the LXI and PXI ranges - 170 pages. All books and catalogs can be ordered from a Pickering Sales Office or downloaded from pickeringtest.com/catalog/



LXI Solutions Map

Ethernet Controlled Switching Solutions for Test, Measurement and Data Aquisition

- 600+ Modular Solutions
- 150+ Switch Systems







Pickering's **LXI** Solutions Map is a single sheet reference to our range of **LXI Switch** Systems and LXI Modular Solutions and associated 600+ modules, including their basic specifications and cabling options.

pickeringtest.com

pickering — Pickering Interfaces

LXI Solutions Map







Features

- Extensive Range of Switching: Matrix, MUX and General Purpose.
 RF/Microwave Switching to 65GHz. Comprehensive Range of Cables and Connectors. High Current to 40A, High Voltage to 1kV.

Direct Sales & Support Offices

Standard Three Year Warranty on all Modules and Switching Systems.
 Gigabit Ethernet.

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Burlington, Massachusetts USA

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Local Sales Offices in Australia, Belgium, Brazil, Canada, India, Indonesia, Israel, Italy, Japan, Malaysia, Netherlands,

pickeringtest.com

Pickering Interfaces AB