Pickering - PXI Switching Map

PXI PXIe The **PXI/PXIe** icon denotes that modules are available in both **PXI** and **PXIe** formats. Pickering is committed to making many more of its **PXI** products available as **PXIe**.

GENERAL PURPOSE SWITCHES

	Low Density (<50 Relays)			High Density						Medium Power (2 A to 5 A)										Switched Guard
Features	• Low Cost General Purpose • Uses High Reliability Pickering Reed Relays			• Highest Density PXI Modules • Pin Compatible With 40-145/6/8 • PXI/PXIe Versions for 40-140B			• Pin Compatible With 40-140B/141/143 • 60 W Maximum Power			• Medium Power Relays	• Low Cost Relay Module For Medium Power Switching Applications			• Power Ruthenium Reed Relays		• High Density • Highly Versatile Mixed Relay Configurations	• High Density	• High Density Power Relays		• Very High Density Electro-Mechanical Relay Module	• Up to 10^{12} Ω Isolation Resistance
Model Family	40-110	40-115		40-140B	40-141	40-143	40-145A	40-146A	40-148A	40-130	40-131	40-132		40-136		40-138	40-139A	40-137		40-100	40-121
Configurations	16 or 32 x SPDT	16 or 32 x SPST	16 or 24 x DPST	50, 75 or 100 x SPST	50 x DPST	48 or 64 x SPDT	50, 75 or 100 x SPST (NO or NC)	25 or 50 x DPST	32, 48 or 64 x SPDT	8 or 13 x DPDT	16 or 26 x SPDT	16 or 32 x SPST	16 or 19 x DPST	16, 25 or 32 x SPST	12, 16 or 19 x DPST	Module accepts mix of SPST, DPST, SPDT & DPDT Relays	Up to 80 x SPST, 40 x DPST, 52 x SPDT or 26 x DPDT	16 x SPST	32 or 39 x SPST	83 x SPDT	13 or 26 x SPST
Relay Type	Pickering Instrumentation Reed			Pickering Instrumentation Reed			Electro-mechanical			Electro-mechanical				Pickering Reed		Electro-mechanical		Electro-mechanical		Electro-mechanical	Ruthenium Reed
Max Switch Voltage	150 VDC/100 VAC			150 VDC/100 VAC						220 VDC/125 VAC	300 VDC/250 VAC			200 V		300 VDC/250 VAC		110 VDC/250 VAC		200 VDC/140 VAC	100 V
Max Switch/Carry Current	0.25 A/1 A	1 A/1.2 A		1 A		0.25 A/1 A	1 A			2 A				1 A/2.5 A or 1 A/2 A		2 A		5 A	2 A	2 A	1 A
Max Switch Power	3 W	20 W		20 W		3 W	60 W			60 W				40 W		60 W		150 W	90 W	60 W	20 W
Typical Operate Time	0.5 ms			0.5 ms			3 ms			3 ms				0.5 ms		3 ms		10 ms		3 ms	0.5 ms
Connector Type	96-pin Micro-D			200-pin LFH						50 or 78-pin D-type				50 or 78-pin D-type		160-pin DIN 41612		37-pin D-type	78-pin D-type	500-pin SEARAY	26-Pin MS-M RF
Width (PXI-1, PXI-hybrid)	1-Slot			1-Slot						1-Slot										1-Slot	1-Slot

HIGH POWER SWITCHES

	High Power (5 A to 40 A)														
Features	• High Power • DPST and SPDT options		• PXI/PXIe Versions for 40/42-153/158		• High Power • SPST and DPST options		• High Density • High Current	• High Density • High Current	• Very High Power • Suitable For Automotive Test			• 50 A Peak	• 120 A Peak	• 90 A Peak	• 20 A Peak
Model Family	40-150/151	40-153	40-155/156/157	40-158	40-160		40-161A	40-166	40-170	40-180	40-181	40-182A	40-183B	40-184A	40-185A
Configurations	8 or 12 x DPST	Up to 50 x SPST	8 or 16 x SPDT, or 8 x DPDT	Up to 32 x SPDT	10 or 20 x SPST	10 x DPST	10, 12, 16 x SPST or 6, 12 x SPDT Inc. Optional Hardware Interlock	5 or 10 x SPST, 3 or 6 x SPDT or 1, 2 or 3 x SP4T	2 x SPST or 2 x DPST	2 or 4 x SPST	2 x SPDT	3 or 6 x SPST	6 x SPST	3 or 6 x SPST	
Relay Type	Electro-mechanical											Solid State			
Max Switch Voltage	125 VDC/250 VAC	110 VDC/250 VAC	300 VDC/250 VAC		125 VDC/250 VAC		300 VDC/ 250 VAC	300 VDC/480 VAC	30 VDC/ 250 VAC	14 VDC or 28 VDC		200 VDC/AC peak	40 VDC/AC peak	100 VDC/AC peak	400 VDC/AC peak
Max Switch/Carry Current	5 A				10 A	8 A	16 A	20 A, 30 A(SPST)	30 A or 20 A	40 A or 20 A		10 A	40 A	25 A	1.5 A
Max Switch Power	175 W/1250 VA	150 W/1250 VA	175 W/1250 VA		300 W/2500 VA	240 W/2000 VA	448 W/4000 VA	600 W/5500 VA	900 W/7500 VA, 600 W/5000 VA	560 W		2000 W	1600 W	2500 W	600 W
Typical Operate Time	10 ms		8 ms	10 ms	10 ms			22 ms	30 ms	15 ms		20 µs	250 µs		20 µs
Connector Type	37 or 50-pin D-type	37 or 50-pin D-type, or SGMC	37 or 50-pin D-type	37 or 50-pin D-type, or SGMC	20-pin GMCT			20-Pin Scorpion	8-pin Power D-type						
Width (PXI-1, PXI-hybrid)	1-Slot							1-Slot	2-Slot			1 or 2-Slot	2-Slot	1 or 2-Slot	

LOW, MEDIUM & HIGH DENSITY MATRICES

	Low Density (<128 Crosspoints)			Medium Density (128 to 256 Crosspoints)													
Features	• Reed Relay Matrix	• 2 A • 2-Pole	• Wide Current Range from 10 µA	• 2 A Matrix With up to 224 Crosspoints					BIRST	• Reed Relay Matrix				• Signal Insertion & Monitor Matrix	• 2 A Matrix • 128 Crosspoints BIRST		
Model Family	40-510/511/512/513	40-515/516/517	40-514	40-505	40-506	40-507	40-508	40-509	40-518A/519B	40-520	40-521	40-522	40-523/524	40-525A	40-527A	40-528B	40-529B
Configurations	1 or 2-Pole or 1-Pole Shielded: Single 12x4, 12x8, 24x4 or Dual 12x4	2-Pole: Single 8x8, 16x4 or Dual 8x4,	2-Pole: Single 6x4, X&Y Loop-thru; Single 6x8, Y Loop-thru.	1-Pole: Single 42x4	1-Pole: Single 32x6	1-Pole: Single 25x8	1-Pole: Single 18x12	1-Pole: Single 14x16	2-Pole: Single 16x8 or 32x4	1-Pole: Between 16x16 & 32x2	1 or 2-Pole: Single 24x8	1 or 2-Pole Dual 12x8	1-Pole, 2-Pole, 1-Pole Shielded: Single 44x4, or 1-Pole: 46x4	1 Pole: 16x4 or 34x4 with Switched Loop-Thru	1 Pole: Single 64x2	1 Pole: Single 32x4	1 Pole: Single 16x8
Relay Type	Pickering Instrumentation Reed	Electro-mechanical		Electro-mechanical						Pickering Instrumentation Reed				Electro-mechanical			
Max Switch Voltage	150 VDC/100 VAC	300 VDC/250 VAC	220 VDC/250 VAC	300 VDC/250 VAC						150 VDC/100 VAC				220 VDC/ 150 VAC	300 VDC/250 VAC		
Max Switch/Carry Current	1 A/1.2 A	2 A		2 A						1 A/1.2 A	0.5 A/1 A	1 A/ 1.25 A		2 A			
Max Switch Power	20 W	60 W	62.5 VA, 60 W	60 W						15 W	10 W	20 W		60 W			
Typical Operate Time	0.5 ms	3 ms	4 ms	6.5 ms					3 ms	0.5 ms				3 ms			
Connector Type	68-pin Micro-D	50-pin D-type		160-pin DIN41612	78-pin D-type	78-pin D-type	50-pin D-type	50-pin D-type	78-pin D-type	50-pin D-type	96-pin Micro-D			78-pin D-type		50-pin D-type	37-pin D-type
Width (PXI-1, PXI-hybrid)	1-Slot			1-Slot													

	High Density (256 to 528 Crosspoints)										
Features	• Fast Operate Time • Long Service Life		• Ultra High Density	BIRST	• Ultra High Density				• Highest Density in 1-Slot • 528 Crosspoints		
Model Family	40-500	40-501	40-530	40-533B	40-531/532	40-534A	40-538	40-535/536/537	40-540A	40-541A	40-542A
Configurations	1 Pole: Single 64x4		1 Pole: Single 32x8	1 or 2 Pole: Single 64x2 or 64x4	1 or 2-Pole or 1-Pole Shielded: Single 32x8 or Dual 16x8	1 or 2-Pole or 1-Pole Shielded: Dual 32x4	1-Pole: Single 55x8	1-Pole: Single 92x4, Single 44x8 or Dual 44x4	1-Pole: Single 132x4	1-Pole: Single 66x8	1-Pole: Single 33x16
Relay Type	Solid State		Pickering Instrumentation Reed								
Max Switch Voltage	±60 VDC/AC peak	±100 VDC/AC peak	150 VDC/100 VAC								
Max Switch/Carry Current	0.5 A	0.15 A	1 A		0.5 A						
Max Switch Power	30 W	15 W	20 W	15 W	10 W						
Typical Operate Time	400 µs		0.5 ms								
Connector Type	78-pin D-type		96-pin Micro-D	200-pin LFH	96-pin Micro-D	200-pin LFH	96-pin Micro-D		200-pin LFH	96-pin micro-D	68-pin micro-D
Width (PXI-1, PXI-hybrid)	1-Slot										

	High Density (256 to 528 Crosspoints)														Switched Guard	
Features	• Highest Density Single Slot 3U 2 A Matrices • Up to 448 Crosspoints					BIRST	• Ultra High Density	BIRST		• Highest Density 1-Slot 2 A Matrices BIRST				• Up to 70 MHz	• Up to 10^{12} Ω Isolation Resistance	Features
Model Family	40-575	40-576	40-577	40-578	40-579	40-580	40-581	40-582A	40-583	40-584A	40-585A	40-586B	40-587B	40-588	40-590	Model Family
Configurations	1-Pole: Single 84x4	1-Pole: Single 64x6	1-Pole: Single 50x8	1-Pole: Single 36x12	1-Pole: Single 28x16	2-Pole: Single 32x8	2-Pole: Single 33x8	2-Pole: Single 16x16	2-Pole: Single 64x4	1-Pole: Single 128x2	1-Pole: Single 64x4	1-Pole: Single 32x8	1-Pole: Single 16x16	2-Pole: 16x8 and 32x8	8x4 and 16x4	Configurations
Relay Type	Electro-mechanical														Ruthenium Reed	Relay Type
Max Switch Voltage	300 VDC/250 VAC					150 VDC/ 100 VAC		270 VDC/225 VAC	300 VDC/250 VAC					220 VDC/250 VAC	100 V	Max Switch Voltage
Max Switch/Carry Current	2 A						1 A	2 A						2 A	250 mA	Max Switch/Carry Current
Max Switch Power	60 W													62.5 VA, 60 W	10 W	Max Switch Power
Typical Operate Time	6.5 ms					3 ms								0.6 ms	0.5 ms	Typical Operate Time
Connector Type	160-pin DIN 41612	78-pin D-type	78-pin D-type	50-pin D-type	50-pin D-type	160-pin DIN 41612	96-pin micro-D	78-pin D-type	160-pin DIN 41612		78-pin D-type	50-pin D-type	37-pin D-type	104-pin D-Type	MMCX Coaxial	Connector Type
Width (PXI-1, PXI-hybrid)	1-Slot													2-Slot	1-Slot	Width (PXI-1, PXI-hybrid)

HIGH POWER MATRICES

	High Power (2 A to 40 A)							
Features	• High Density • 2 A	• High Density • 5 A	• 2-Pole • 5 A	• High Density • 10 A	• High Density • 16 A	• High Speed, Long Service Life • High Inrush Current		
Model Family	40-545/546/547/548	40-549	40-550	40-551	40-552	40-553A	40-554B	40-555B
Configurations	1-Pole: Single 10x4, 10x8, 20x4 or Dual 10x4	1-Pole: Single 8x4, 8x8, 16x4 or Dual 8x4	2-Pole: Single 8x4	1-Pole: Single 4x4, 8x2 or 8x4 (8x4 loop-thru option)	1-Pole: Single 4x4 or 8x2 with loop-thru option	1-Pole: Single 6x2		1-Pole: Single 8x2
Relay Type	Electro-mechanical					Solid State		
Max Switch Voltage	110 VDC/250 VAC		125 VDC/250 VAC		300 VDC/250 VAC	±200 VDC/AC peak	±40 VDC/AC peak	
Max Switch/Carry Current	2 A	5 A		10 A	16 A	10 A	40 A	
Max Switch Power	90 W/500 VA	150 W/1250 VA		300 W/2500 VA	448 W/4000 VA	2000 W	1600 W	
Typical Operate Time	10 ms	10 ms				120 µs	250 µs	
Connector Type	37-pin D-type	25-pin D-type	37-pin D or 20-pin GMCT	20-pin GMCT		8-pin Power D-type		
Width (PXI-1, PXI-hybrid)	1-Slot					2-Slot		

BRIC LARGE MATRICES

	High Density Matrix																					
Features	BIRST • New Generation of 0.5 A Matrices • Robust 0.5 A/5 W Switching With up to 9216 Crosspoints per Module				BIRST • New Generation of 1 A Matrices • Robust 1 A/20 W Switching With up to 4096 Crosspoints per Module					BIRST • Integrated PXI Matrix With Built In High Performance Analog Bus • Highest Quality Reed Relays					• Available as 2, 4, 8 or 12 Slot 3U Modules • x4, x8, x16 & x32 Options • Built-In Self Test							
Model Family	40-558				40-559					40-560B			40-561A		40-562B				40-563A			
Configurations	1-Pole: From 168x6 to 1512x6	1-Pole: From 128x8 to 1152x8	1-Pole: From 84x12 to 756x12	1-Pole: From 64x16 to 576x16	1-Pole: From 256x4 to 1024x4	1-Pole: From 168x6 to 672x6	1-Pole: From 128x8 to 512x8	1-Pole: From 84x12 to 336x12	1-Pole: From 64x16 to 256x16	1-Pole: From 184x4 to 1656x4	1-Pole: From 92x8 to 828x8	1-Pole: From 46x16 to 414x16	1 or 2-Pole: From 60x8 to 360x8	1 or 2-Pole: From 30x16 to 180x16	1 or 2-Pole: From 88x4 to 792x4	1 or 2-Pole: From 44x8 to 396x8	1 or 2-Pole: From 22x16 to 198x16	1-Pole: From 10x32 to 90x32	1-Pole: From 64x8 to 360x8			
Relay Type	Pickering Instrumentation Reed																		Solid State			
Max Switch Voltage	150 VDC/100 VAC				190 VDC/200 VAC					Up to 140 VDC/100 VAC			85 VDC/100 VAC		150 VDC/100 VAC				±40 V			
Max Switch/Carry Current	0.5 A				1 A/1.2 A					0.5 A					1 A/1.2 A				0.25 A			
Max Switch Power	5 W				20 W					10 W					20 W				10 W			
Typical Operate Time	1 ms																		20 µs			
Connector Type	100-pin Micro-D		68-pin Micro-D		160-pin DIN 41612	104-pin D-type	78-pin D-type		50-pin D-type	96-pin Micro-D	68-pin Micro-D		68 & 96-pin Micro-D	68-pin Micro-D	96-pin Micro-D	68-pin Micro-D						
Width (PXI-1, PXI-hybrid)	2, 4, 8 or 12-Slot				2, 4 or 8-Slot					2, 4, 8 or 12-Slot												

	2 A Matrix							
Features	• High Density 2-Pole Matrix • 60 W Switching • Built-In Self Test BIRST		• Very High Density 1-Pole Matrix • x4, x6, x8, x12 & x16 Options • Electro-mechanical Relays		• 60 W Switching • Available as 2, 4 or 8 Slot 3U PXI Modules			• ATE Switching System • Multiple Configurations • Designed For ARINC 608A Testing
Model Family	40-573	40-566B	40-568	40-596A	40-567A	40-597	40-598	40-569B
Configurations	2-Pole: From 29x8 to 232x8	2-Pole: From 55x4 to 385x4	1-Pole: From 75x4 to 600x4	1-Pole: From 58x6 to 464x6	1-Pole: From 44x8 to 352x8	1-Pole: From 32x12 to 256x12	1-Pole: From 24x16 to 192x16	1 or 2 Resource Distributor Cards (2-Pole: 8x4 & 16x4 Matrices) & up to 6 Bus Matrix Inputs Cards (Dual 4-Pole 16x2 Matrix)
Relay Type	Electro-mechanical							
Max Switch Voltage	240 VDC/250 VAC	300 VDC/250 VAC	200 VDC/140 VAC	300 VDC/250 VAC	100 VDC/70 VAC			200 VDC/180 VAC
Max Switch/Carry Current	2 A							
Max Switch Power	60 W							
Typical Operate Time	3 ms		6.5 ms					3 ms
Connector Type	78-pin D-type	160-pin DIN 41612 & 25-pin D-type	78-pin D-type		50-pin D-type	37-pin D-type	25-pin D-type	160-pin DIN 41612 & 50-pin D-type
Width (PXI-1, PXI-hybrid)	2, 4 or 8-Slot	4 or 8-Slot	2, 4 or 8-Slot					4 or 8-Slot

LOW DENSITY MULTIPLEXERS

	Low Density					Switched Guard
Features	• Low Density, Low Cost • Single and Dual Configurations		• Differential Thermal Offset <1.5 µV	• Low Cost • 2 A Switching	• Wide Current Range from 10 µA	• Up to 10^{12} Ω Isolation Resistance
Model Family	40-630A	40-632A	40-620A	40-635A	40-514	40-121
Configurations	1-Pole: Single 64:1 or Dual 32:1, 2-Pole: Single 32:1, Dual 16:1 or 4-Pole: Single 16:1	1-Pole: Single 48:1 Dual 24:1 2-Pole: Single 24:1	2-Pole: Single 23:1 Low Thermal EMF MUX	Between 1-Pole: Single 64:1 & 2-Pole: 4-Bank 8:1	1-Pole: Single 24:1, Dual 12:1, Quad 6:1. 2-Pole: Single 12:1, Dual 6:1, Quad 3:1. 4-Pole: Single 6:1 Dual 3:1.	8 or 16 2:1 Multiplexers
Relay Type	Pickering Instrumentation Reed			Electro-mechanical		Ruthenium Reed
Max Switch Voltage	150 VDC/100 VAC		100 V	300 VDC/250 VAC	220 VDC/250 VAC	100 V
Max Switch/Carry Current	1 A/1.2 A		0.5 A/1 A	2 A	2 A/2.5:A	1 A
Max Switch Power	20 W			60 W	62.5 VA, 60 W	20 W
Typical Operate Time	0.5 ms			3 ms	4 ms	0.5 ms
Connector Type	68-pin Micro-D		96-pin Micro-D	78-pin D-type	37 & 50-pin D-type	26-Pin MS-M RF
Width (PXI-1, PXI-hybrid)	1-Slot					1-Slot

HIGH DENSITY MULTIPLEXERS

	High Density																				
Features	• Very High Density • Wide Range of Configurations		• Multiple Configurations • High Speed, Long Life	• Configurable • Equivalent to 40-612A			• Configurable with Inter-bank Relays		• High Density	• Wide Range of Configurations	• High Density • Low Cost • PXI/PXIe (40/42-675B)		• Versatile - Many Possible Configurations • Software Configurable		• Low Cost • Wide Range of Configurations	• Configurable • 2-Pole Switching	• High Density • 2-Pole Switching	• High Density • 2-Pole Switching	• High Density MUX in Pickering BRIC format	• MUX + SPST Switches • Designed for ARINC 608A Testing	• MUX with DMM Monitor Function
Model Family	40-610A	40-615A	40-680	40-681A	40-682A	40-683A	40-616A	40-617A	40-640A	40-670C	40-675B	40-611A	40-612B	40-613A	40-614D	40-655A	40-656A	40-659A	40-570A	40-618A	40-619
Configurations	Between 1-Pole: Single 128:1 & 2-Pole: 8-Bank 8:1, (1-Pole shielded reed available)	Between 1-Pole: Single 160:1 & 2-Pole: 20-Bank 4:1	1-Pole: Between Single 160:1 & 20-Bank 8:1	Between 1-Pole: Single 128:1 & 2-Pole: 8-Bank 8:1			1-Pole: 16-Bank 5:1	1-Pole: 18-Bank 3:1	Single 1-Pole: 94:1 or 2-Pole: 47:1	Between 1-Pole: Single 198:1 & 32-Pole Single 5:1	Between 1-Pole: Single 198:1 & 32-Pole: Single 5:1	1-Pole: Single 158:1 or 2-Pole: Single 79:1	8 Basic Configurations from 1-Pole: Single 128:1 to 2-Pole: 8-Bank 8:1	5 Basic 2-Pole Configurations from: Single 64:1 to 16-Bank 4:1	22 Configurations, 1 to 32 Poles, 1 to 16 Banks, 4 to 128 Channels,	2-Pole: 7-Bank 4:1	2-Pole: Single 38:1	2-Pole: 8-Bank 8:1	Max configurations between 160-Pole: 6:1 & 10-Pole: 96:1 with switched loop-thru	Source Switch (12-Bank 4:1 MUX & 44 x SPST Switches)	9 Configurations: 1-Pole: Single, Dual and Quad Versions, 16, 25, 32, 64 or 128 Channels
Relay Type	Pickering Instrumentation Reed		Solid State				Pickering Instrumentation Reed				Electro-mechanical										
Max Switch Voltage	150 VDC/100 VAC		±15 V	±60 V	±40 V	±100 V	100 V		150 VDC/100 VAC			300 VDC/250 VAC				220 VDC/125 VAC		300 VDC/250 VAC	100 VDC/100 VAC peak	300 VDC/250 VAC	250 VAC/DC
Max Switch/Carry Current	1 A/1.2 A		20 mA	350 mA	250 mA	125 mA	1 A		0.5 A/1.2 A	0.5 A	1 A	2 A						2 A	1 A	2 A	2 A
Max Switch Power	20 W		3 W	21 W	10 W	12.5 W	20 W			10 W	60 W									60 W	60 W (62.5 VA)
Typical Operate Time	0.5 ms		200 ns	200 µs	80 µs	500 µs	0.5 ms				3 ms			6 ms	3 ms	4.5 ms		3 ms		3 ms	6 ms
Connector Type	200-pin LFH			160-pin DIN 41612			96-pin Micro-D			200-pin LFH		160-pin DIN 41612				78-pin D-type		160-pin DIN 41612		160-pin DIN 41612	160-pin DIN 41612
Width (PXI-1, PXI-hybrid)	1-Slot																		8-Slot	1-Slot	1-Slot

HIGH POWER MULTIPLEXERS

	High Power													
Features	• 5 A Power MUX	• 5 A MUX - Multiple Configurations	• High Speed • Long Life	• High Density • 1-Pole Switching	• Power & Sense MUX	• Power MUX in Pickering BRIC format	• 1 or 2-Pole Power MUX • 10 A or 8 A Current Handling			• High Density • 10 A Switching • 1-Pole	• High Density • 16 A Switching • 1-Pole	• Suitable For Automotive Test	• High Speed, Long Life • High Inrush Current	
Model Family	40-650A	40-651A	40-652A	40-657A	40-658A	40-571A	40-660A		40-665A	40-661A	40-662A	40-664A	40-666B	40-667C
Configurations	2-Pole: Single 16:1	1-Pole: 1-Bank 48:1, 2-Bank 24:1, 4-Bank 11:1 or 8-Bank 5:1	1-Pole: Single 24:1 & 48:1, Dual 24:1, 2-Pole: Single 24:1	1-Pole: 8-Bank 8:1, 4-Bank 16:1, 2-Bank 32:1 or Single 64:1	2-Pole: Dual 18:1	Max configurations between 6-Pole: 48:1 & 48-Pole: 6:1 with loop-thru	2-Pole: Single 10:1	1-Pole: Single 10:1	1-Pole: Single 18:1	8-Bank 4:1, 5-Bank 6:1, 4-Bank 4:1 or 8:1, Dual 8:1 or 16:1, Single 16:1 or 32:1,	Quad 2:1, Quad 4:1, Dual 4:1, Dual 8:1, Single 8:1, Single 12:1 or Single 16:1	1-Pole: Single 4:1	1-Pole: Single 6:1 or Dual 3:1	
Relay Type	Electro-mechanical		Solid State	Electro-mechanical	Instrumentation Reed	Electro-mechanical							Solid State	
Max Switch Voltage	125 VDC/250 VAC	110 VDC/250 VAC	±100 V	110 VDC/250 VAC	200 VDC/240 VAC (Power) & 200 VDC (Sense)	100 VDC/100 VAC peak	125 VDC/250 VAC				300 VDC/250 VAC	14 VDC or 28 VDC	±200 VDC/ AC peak	±40 VDC/ AC peak
Max Switch/Carry Current	5 A			2 A	1 A/2 A (Power), 1 A/1.2 A (Sense)	3 A	8 A	10 A			16 A	20 A or 40 A	10 A	40 A
Max Switch Power	175 W/1250 VA	150 W/1250 VA	500 W	90 W/500 VA	40 W (Power), 20 W (Sense)	105 W	240 W/2000 VA	300 W/2500 VA			448 W/4000 VA	560 W	2000 W	1600 W
Typical Operate Time	10.5 ms		85 µs	10.5 ms	0.5 ms	10.5 ms	10.5 ms				8.5 ms	15.5 ms	120 µs	250 µs
Connector Type	37-pin D-type	9 & 50-pin D-type	50-pin D-type	78-pin D-type		50-pin D-type	20-pin GMCT					8-pin Power D-type		
Width (PXI-1, PXI-hybrid)	1-Slot					8-Slot	1-Slot					2-Slot		

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CHASSIS & REMOTE CONTROLLERS

	PXI Chassis				PXI Controllers	PXI/PXIe Hybrid Chassis			PXIe Controllers		LXI Ethernet/USB Chassis				
Chassis Slots	8-Slot	19-Slot	8-Slot	14-Slot	–	8-Slot	18-Slot	21-Slot	–	–	2-Slot	4-Slot	6-Slot	7-Slot	18-Slot
Features	• High Performance Chassis • Remote Management System	• High Performance Chassis • Remote Management System	• 6 Mechanical Expansion Slots for Efficient Housing of Wide Modules e.g. BRIC	• High Performance Chassis • Hot Swappable PSUs	• PCIe to PXI Control Interface Kit • Provides a PCI Express Interface	• Gen3 High Performance Chassis • Remote Management System	• Gen2 & Gen3 High Performance Chassis • Remote Management System	• Gen2 High Performance Chassis • 20 PXIe Hybrid Peripheral Slots • Very High Power and Cooling Capacity	• PXIe Embedded Controller • Max Throughput 14GB/s • Compact for Versatility	• PCIe to PXIe Control Interface Kit • Daisy Chain Option	• Compact chassis for hosting Pickering's 3U PXI modules in an LXI environment, allowing remote control over an Ethernet or USB connection				
Model Family	40-924	40-923A	40-908	40-914	41-924/51-924	42-924	42-925/42-926	42-927	43-920	43-921-001/002 and Kits	60-104	60-105	60-106	60-102D	60-103D

Choosing a Chassis for Pickering PXI Modules

(Please note the chassis slot width for all required modules when selecting a chassis)

CHASSIS SELECTION GUIDE:

PXI and PXIe (with PXIe and/or Hybrid Slots)
- Mix our 1000+ PXI Switching & Simulation modules with any vendors' PXI/PXIe instrumentation
- Embedded or remote Windows PC control
- Real-time operating system support
- High data bandwidths, especially with PXI Express
- Integrated module timing and synchronization

Pickering LXI or LXI/USB Modular Chassis (Only accept our PXI Switching & Simulation Modules):
- Choose from 1000+ Pickering PXI modules
- Ethernet or USB control enables remote operation
- Low-cost control from practically any controller
- LXI provides manual control via Web browsers
- Driverless software support
- Power sequencing immunity
- Ethernet provides chassis/controller voltage isolation
- Independence from Windows operating system

3U PXI modules are compatible with the following chassis types:
- All chassis conforming to the 3U PXI and 3U Compact PCI (cPCI) specification
- Legacy and hybrid peripheral slots in a 3U PXI Express (PXIe) chassis
- Pickering Interfaces LXI or LXI/USB modular chassis

3U PXIe versions of the modules are compatible with the following chassis types:
- All chassis conforming to the 3U PXIe specification
- PXIe and hybrid peripheral slots in a 3U PXI Express (PXIe) chassis

USB, COMMUNICATIONS & OPTICAL SWITCHING

	USB Switch	Telecoms/Differential Switching					Optical Switching			
Features	• Data Comms MUX For USB1 & USB2	• Tributary Switches • Suitable for Telecoms Test Applications		• Data Comms MUX For Switching USB and RS232	• Data Comms MUX For Switching AFDX, Ethernet, LVDS, USB and RS232	• Multiplexer Designed For Differential Signals • MIL-STD-1553	• MEMS Technology Offering High Reliability & Fast Operating Speed • Available With Single-Mode or Multi-Mode Support			
Model Family	40-737A	40-792/793	40-795/796	40-735	40-736	40-739	40-850A	40-852A	40-855A	40-860A
Configurations	4-Pole: Single 8 or 16-Channel	1-Pole (75Ω) 8 or 16-Channel Tributary Switch	2-Pole (100/120Ω) 8 or 16-Channel Tributary Switch	Single 36, Dual 18 or Single 18 Channel	8-Channel / 4-Pair, 16-Channel / 2-Pair & 32-Channel / 1-Pair	Single or Dual 4, 8 or 16-channel differential switching	Single 4-Channel MUX	Single 8-Channel MUX	Single, Dual, Triple or Quad 2-Channel MUX	Single, Dual, Triple, Quad Insert/Bypass Switch
Relay Type	Electro-mechanical	Electro-mechanical		Reed & Electro-mechanical	Electro-mechanical	Electro-mechanical	MEMS Optical			
Max Switch Voltage	100 V	100 VDC/100 VAC		150 VDC/100 VAC	100 V	–	–			
Max Switch/Carry Current	0.5 A data, 2 A power	1 A		0.5 A	0.3 A	0.8 A	–			
Max Switch Power	60 W	30 W		10 W	60 W	60 W	–			
Typical Operate Time	3 ms	10 ms		4 ms	3 ms	3 ms	1 ms			
Connector Type	USB or 78-pin D-type	96-pin Micro-D			78-pin D-type	78-pin D-type	FC/APC, FC/PC, SC/PC, MU (mini SC), LC, SC, ST			
Width (PXI-1, PXI-hybrid)	1-Slot	1-Slot					1 or 2-Slot			

RF SWITCHES & MULTIPLEXERS

RF SPDT Switch

Features	• 8 GHz Bandwidth • Terminated	• High Performance • Low Cost		• Multiple Connector Options		• High Density • High Performance • Low Cost			
Model Family	40-880B	40-870A	40-830A	40-710		40-754A			
Impedance	50 Ω		75 Ω	50 Ω	75 Ω	50 Ω		75 Ω	
Configurations	Dual, Quad, Hex or Octal SPDT	Triple or Hex SPDT		Quad SPDT		9 or 17 x SPDT			
Max Frequency	8 GHz	3 GHz	2.7 GHz	1 GHz to 2.5 GHz	1 GHz	1.2 GHz	500 MHz	1.2 GHz	
Insertion Loss	<4 dB	<0.5 dB	<0.9 dB	<3 dB		<0.75 dB	<0.6 dB	1 db	
Max Power	+36 dBm	10 W							
Typical Operate Time	50 µs	3 ms		10 ms		3 ms			
Relay Type	Solid State	Electro-mechanical							
Connector Type	SMA	SMB, MCX		BNC, SMB, SMA	BNC, SMZ, 1.0/2.3, SMB	SMB	MS-M	SMB	MS-M
Width (PXI-1, PXI-hybrid)	1, 2 or 3-Slot	1-Slot		1 or 2-Slot		2-Slot	1-Slot	2-Slot	1-Slot

RF Multiplexer

Features	• 8 GHz Bandwidth • Terminated Channels • High Performance				• 4 GHz • Very Low Insertion Loss	• 3 GHz Bandwidth • High Performance		• 3 GHz Bandwidth • Terminated	• 3 GHz Bandwidth • Terminated Com	• 3 GHz Bandwidth • High Performance • Low Cost				• Up to 2 GHz Bandwidth • Choice of SMA or SMB Connectors			• Choice of SMA or SMB Connectors						• Very High Density • High Performance • Low Cost				• Low Cost • Unterminated	• Low Cost • Terminated Channels
Model Family	40-881B	40-882B	40-883B		40-878	40-872A	40-832A	40-873A	40-876A	40-874A	40-834A	40-875A	40-835A	40-740	40-745	40-746	40-747		40-748		40-749		40-755A				40-760/2/4/6	40-761A/3A/5A/7A
Impedance	50 Ω						75 Ω	50 Ω			75 Ω	50 Ω	75 Ω	50 Ω or 75 Ω			50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω		75 Ω		50 Ω	
Configurations	Single or Dual SP6T Terminated	Single, Dual, Triple or Quad SP4T Terminated	Single SP8T Terminated	Single SP16T Terminated	Single, Dual or Quad 4:1 RF MUX	Single, Dual or Quad SP4T		Single or Dual SP4T Terminated	Single, Dual or Quad SP4T Terminated	Single or Dual SP8T		Single SP16T		SP4T Terminated	SP4T or SP8T	Dual SP4T	Single SP16T		Dual SP8T		Quad SP4T		4 or 10 off SP4T	5 or 10 off SP4T	4 or 10 off SP4T	5 or 10 off SP4T	Dual, Quad or Octal SP4T; Single, Dual or Quad SP8T; Single or Dual SP16T, or Single SP32T	
Max Frequency	8 GHz				4 GHz	3 GHz								1 GHz to 2 GHz			1 GHz		2 GHz	1 GHz	1 GHz		1.8 GHz	1.3 GHz	1.3 GHz		600 MHz	
Insertion Loss	<6.8 dB	<5 dB	<8 dB	<9 dB	<1.4 dB	<1 dB	<1.6 dB	<1.5 dB	<1.3 dB	<1.2 dB	<2.1 dB	<1.3 dB	<1.9 dB	<3 dB			<1.6 dB	<2.9 dB	<2.6 dB	<1.9 dB	<1.5 dB	<1.25 dB	<1.3 dB	<2 dB	–	<2 dB	<3 dB	
Max Power	+36 dBm		+30 dBm		25 W	10 W		1 W Terminated	2 W Terminated	10 W																	1 W	0.25 W Terminated
Typical Operate Time	50 µs				50 µs	3 ms								5 ms									3 ms				10 ms	
Relay Type	Solid State				MEMS	Electro-mechanical																						
Connector Type	SMA				SMB, MCX									SMA, SMB			SMA, SMB	SMB	SMB	SMB	SMA, SMB	SMB	SMB	MS-M RF	SMB	MS-M RF	SMB	
Width (PXI-1, PXI-hybrid)	1 or 2-Slot	1, 2 or 3-Slot	2-Slot	3-Slot	1-Slot	1-Slot											1 or 2-Slot							1-Slot	1 or 2-Slot	1-Slot	1 or 2-Slot	

RF MATRICES

RF Matrix

Features	• 8 GHz Bandwidth • High Performance	• Expandable • High Performance		• Expandable		• X and Y Isolation Switching		• Expandable • Easy Y-Axis Loop-Thru		• Low Loss Expansion Options: 24x8, 32x8, 40x8, 48x8.... • X and Y Isolation Switching						• High Performance • Loop-thru Option
Model Family	40-884B	40-877A	40-837A	40-750A		40-725		40-726A		40-727A		40-728A		40-729A		40-724
Impedance	50 Ω		75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω	75 Ω	50 Ω
Configurations	Single 4x4	Single or Dual 2x2		8x2		8x9		12x8		16x4		16x2		8x4		16x4, 16x8, 32x4 or with 32x8 Optional Loop-thru
Max Frequency	8 GHz	2.5 GHz		1 GHz		500 MHz	250 MHz	300 MHz	250 MHz	300 MHz	100 MHz	300 MHz	100 MHz	300 MHz	100 MHz	300 MHz (150 MHz Loop-thru)
Insertion Loss	<8 dB	<1.4 dB	<2.0 dB	<3 dB	3 dB	<3 dB										
Max Power	+30 dBm	10 W														
Typical Operate Time	50 µs	3 ms		5 ms		0.5 ms				0.5 ms						0.5 ms
Relay Type	Solid State	Electro-mechanical				Instrumentation Reed				Reed						Reed
Connector Type	SMA	SMB, MCX		SMA, SMB, MS-M	SMB, MS-M	SMB				SMB or MS-M RF						SMB
Width (PXI-1, PXI-hybrid)	3-Slot	1-Slot				1-Slot										2-Slot

MICROWAVE SWITCHES

	SPDT				Transfer Switch	SP4T/SP6T			SP8T/SP10T/SP12T	FLEXIBLE	
Features	• Choice of module bandwidths • LED indication of closed switch paths • Failsafe (Latching Relays for 110 GHz)				• Remote Mount versions available with a 1-slot controller (2-slots for 40-788) connected via 1.5 m cables to up to 3 remote relays • Use less PXI chassis space and allow relays to be placed closer to the UUT and RF instrumentation, minimizing RF cable lengths and improving system performance					• User Defined Mixed Configurations with Graphical Design Tool	
Model Family	40-780B		40-781A	40-781A-92x	40-782B	40-784B	40-785C		40-788	40-890	
Impedance	50 Ω	75 Ω	50 Ω					75 Ω	50 Ω	50 Ω	75 Ω
Configurations	Single, Dual, Triple or Quad SPDT		Single or Dual SPDT Terminated		Single or Dual Transfer Switch	Single, Dual or Triple SP4T & SP6T	Single, Dual or Triple SP4T & SP6T MUX with Terminated Options		SP8T, SP10T, SP12T. Terminated and Remote Options	Transfer, SPDT, SP4T, SP6T, SP8T, SP10T, SP12T with Terminated Options	
Max Frequency	Up to 67 GHz	2.5 GHz	Up to 50 GHz	110 GHz	Up to 50 GHz	Up to 40 GHz	Up to 67 GHz	2.5 GHz	Up to 26.5 GHz	Up to 110 GHz	2.5 GHz
Insertion Loss	<1.1 dB		<0.5 dB	<2.5 dB	<1.1 dB	<1.1 dB	<1.7 dB	<0.3 dB	<1.1 dB	<1.7 dB	<0.3 dB
Max Power	Up to 700 W		1 W Terminated		Up to 240 W	Up to 150 W	Up to 240 W		Up to 400 W	Up to 700 W	400 W
Typical Operate Time	15 ms		10 ms	10 ms	15 ms	10 ms	15 ms		15 ms	<15 ms	
Relay Type	Microwave Relay										
Connector Type	N-type, SMA, SMA-2.9, SMA-2.4, SMA-1.8, 1.6/5.6		SMA, SMA-2.9, SMA-2.4	SMA-1.0	SMA, SMA-2.9, SMA-2.4	SMA, SMA-2.9	N-type, SMA, SMA-2.9, SMA-2.4, SMA-1.8	1.6/5.6	N-type, SMA	N-type, SMA, SMA-2.9, SMA-2.4, SMA-1.85, 1.6/5.6	
Width (PXI-1, PXI-hybrid)	1, 2 or 3-Slot		1 or 2-Slot		2-Slot	1 or 2-Slot	1, 3, 4 or 6-Slot		2, 3, 4 or 6-Slot	1, 2, 3, 4, 5 or 6-Slot	

HIGH VOLTAGE SWITCHES

	General Purpose Switches		Matrices	Multiplexers			9 kV
Features	• HV Reed Relays	• HV Power Relay	• HV Power Matrix	• MUX, 750 V Hot Switch	• HV MUX • Hardware Interlock	• HV 1-Pole Power MUX	• HV Power Relay • Hardware Interlock
Model Family	40-310	40-330	40-332	40-320A	40-321	40-331A	40-323
Configurations	8 or 16 x SPST	12, 18 or 24 x SPST	1-Pole: Single 6x4 or 12x2	1 Pole: Single 12:1 or 24:1	1 or 2-Pole: Single, Dual, Triple, Quad and Hex. 4 to 48 Channels.	1 Pole: Single 24:1, Dual 12:1, Quad 6:1, Hex 4:1, Octal 3:1 or Twelve 2:1	7 or 14 x SPST
Relay Type	Rhodium Reed	Electro-mechanical		Rhodium Reed	Ruthenium Reed	Electro-mechanical	Tungsten Reed
Max Switch Voltage	1 kVDC/AC pk	1000 VDC/1000 VAC peak					9 kVDC/AC pk
Max Switch/Carry Current	0.5 A	5 A	5 A	0.5 A	1.25 A	5 A	0.25 A
Max Switch Power	10 W	150 W/1250 VA		10 W		150 W/1250 VA	50 W
Typical Operate Time	0.5 ms	10.5 ms	10.5 ms	0.5 ms	0.6 ms	10.5 ms	7 ms
Connector Type	37-pin HV D-type	50 or 37-Pin HV D-type	37-pin HV D-type		50-pin HV D-type	37-pin HV D-type	22 or 51-Pin REDEL
Width (PXI-1, PXI-hybrid)	1-Slot		1-Slot	1-Slot	1 or 2-Slot	1-Slot	1-Slot

6U PXI SWITCHING

6U

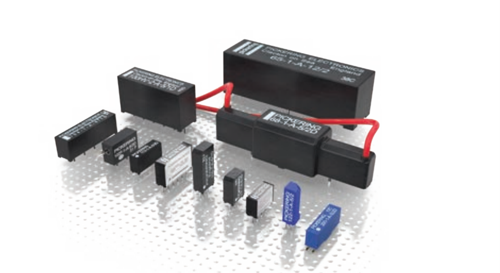
	Relays	Matrices		RF
Features	• High Power Relay Module	BiRST Built-In Relay Self-Test • Ultra High Density	• Ultra High Density	• 250 MHz Bandwidth • 50 Ω or 75 Ω
Model Family	45-157	45-541	45-542	45-720A
Configurations	48x SPDT Power Relays	1- Pole: Single 132x8 Matrix		16x16 Expandable RF Matrix
Relay Type	Electro-mechanical	Instrument Reed	Electro-mechanical	Instrument Reed
Max Switch Voltage	300 VDC/ 240 VAC	100 VDC/ 70 VAC rms	170 VDC/ 120 VAC	100 V
Max Switch/Carry Current	7.5 A	0.5 A	1 A	0.5 A
Max Switch Power	240 W/1800 VA	10 W	60 W	10 W
Typical Operate Time	10 ms	0.5 ms	6.5 ms	3 ms
Connector Type	50-pin D-type	50-pin D-type		SMB, SMZ, 1.0/2.3, Lemo 00
6U PXI Slot Width	1-Slot	1-Slot		1 or 2-Slot

FAULT INSERTION

	Fault Insertion Matrices					Fault Insertion Switches														
Features	• High Density Fault Insertion Breakout Matrix • Available With 2 or 3 Pin Breakout				• Power Fault Insertion Breakout Matrix	• High Density	• High Power • Solid State Switching • High Inrush Current Rating		• High Power • Electro-mechanical Switching		• 1 A - For Avionics/ Automotive Applications	• 5 A - For Avionics/ Automotive Applications	• 2 Amp • High Density • Low Cost	• 5 Amp • High Density • Low Cost	• 10 Amp • High Density	• Differential • Suitable for CAN, FlexRay	• High Bandwidth • Suitable for Ethernet AFDX & BroadR-Reach	• High Density Low Cost • Suitable for Avionics or Automotive Test	• 1000/100Base-T1 • ECU Test	• 1000/100Base-T1 • 700 MHz Differential
Model Family	40-592A				40-595A	40-190B	40-191B	40-192A	40-193A	40-194A	40-195	40-196	40-197A	40-198	40-199	40-200	40-201	40-202	40-203	40-204
Configurations	Dual 31x4 to Dual 124x4 Fault Matrix, 2 Pin Breakout	Dual 31x4 to Dual 248x4 Fault Matrix, 2 Pin Breakout	Dual 20x4 to Dual 80x4 Fault Matrix, 3 Pin Breakout	Dual 20x4 to Dual 160x4 Fault Matrix, 3 Pin Breakout	Dual 16x2 to Dual 30x2 Fault Matrix, 3-Pin Breakout	32, 64 or 74 Channels, 1 or 2 Fault Bus (4 or 8 Fault Input)	6 Signal Channels, 2 Fault Buses (2 Fault Inputs)		7 Signal Channels, 1 or 2 Fault Buses (1 or 2 Fault Input)		11 or 22 Signal Channel Pairs, 4 or 8 Fault Inputs	5 or 10 Signal Channel Pairs, 5 or 10 Fault Inputs	16 or 34 Signal Channels, 4 Fault Buses (8 Fault Inputs)	20 Signal Channels, 1 or 2 Fault Buses (3 or 6 Fault Input)	10 Signal Channels, 1 or 2 Fault Buses (1 or 2 Fault Input)	4 or 8 Pair Differential, 4 Fault Buses (8 Fault Inputs)	4 or 8 Pair Differential, 2 Fault Buses (4 Fault Inputs)	11 or 22 Signal Channel Pairs, 11 or 22 Fault Inputs	3 or 6 pairs of two wire connections designed for use on differential serial interfaces	1 or 2 pairs of two wire connections designed for use on differential serial interfaces inc MUX
Relay Type	Pickering Instrumentation Reed				Electro-mechanical	Electro-mechanical	Solid State		Electro-mechanical										Reed Relay	Electro-mechanical
Max Switch Voltage	150 VDC/100 VAC				125 VDC/250 VAC	165 VDC/115 VAC	±40 VDC/AC pk	±200 VDC/AC pk	16 VDC		150 VDC/100 VAC	110 VDC/100 VAC	300 VDC/250 VAC	110 VDC/250 VAC	125 VDC/250 VAC	100 V		150 VDC/100 VAC	200 V	
Max Switch/Carry Current	1 A/1.2 A				10 A(matrix) 8 A(breakout)	2 A	40 A	10 A	20 A		1 A	5 A	2 A	5 A	10 A	0.3 A (2 A Fault Bus)		2 A	0.5 A (Hot Switch), 0.8 A (Carry)	
Max Switch Power	20 W				300 W/2500 VA	60 W	1600 W	2000 W	280 W		60 W	150 W/500 VA	60 W	150 W/1250 VA	300 W/2500 VA	30 W (60 W Fault Bus)		60 W	–	–
Typical Operate Time	0.5 ms				10 ms	3 ms	250 µs	70 µs	10 ms	25 ms	3 ms	10 ms	3 ms	10 ms		3 ms			0.5 ms	3 ms
Connector Type	78-pin D-type				37-pin D-type	160-pin DIN 41612	8-pin Power D-type				96-pin Micro-D	50-pin D-type	78-pin D-type	50-pin D-type	20-pin GMCT & 3-pin Power D-type	78-pin D-type		160-pin DIN 41612	MMCX	
Width (PXI-1, PXI-hybrid)	4-Slot	8-Slot	4-Slot	8-Slot	8-Slot	1-Slot	2-Slot				1-Slot									

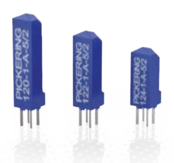
REED RELAYS

Reed Relays from Pickering Electronics



Reed Relays - Pickering has 55-years experience in the design and manufacture of instrumentation-grade reed relays, and we are the only switch system manufacturer with this in-house capability. All our relays feature a unique ***SoftCenter***™ technology, ensuring long service life and repeatable contact performance (for further information visit pickeringrelay.com).

Pickering's **Series 120**, **Series 122** and **Series 124** ultra-high-density **4 mm²** reed relays stack on a 4 mm x 4 mm pitch, allowing the highest switch module packing density currently available in the industry.



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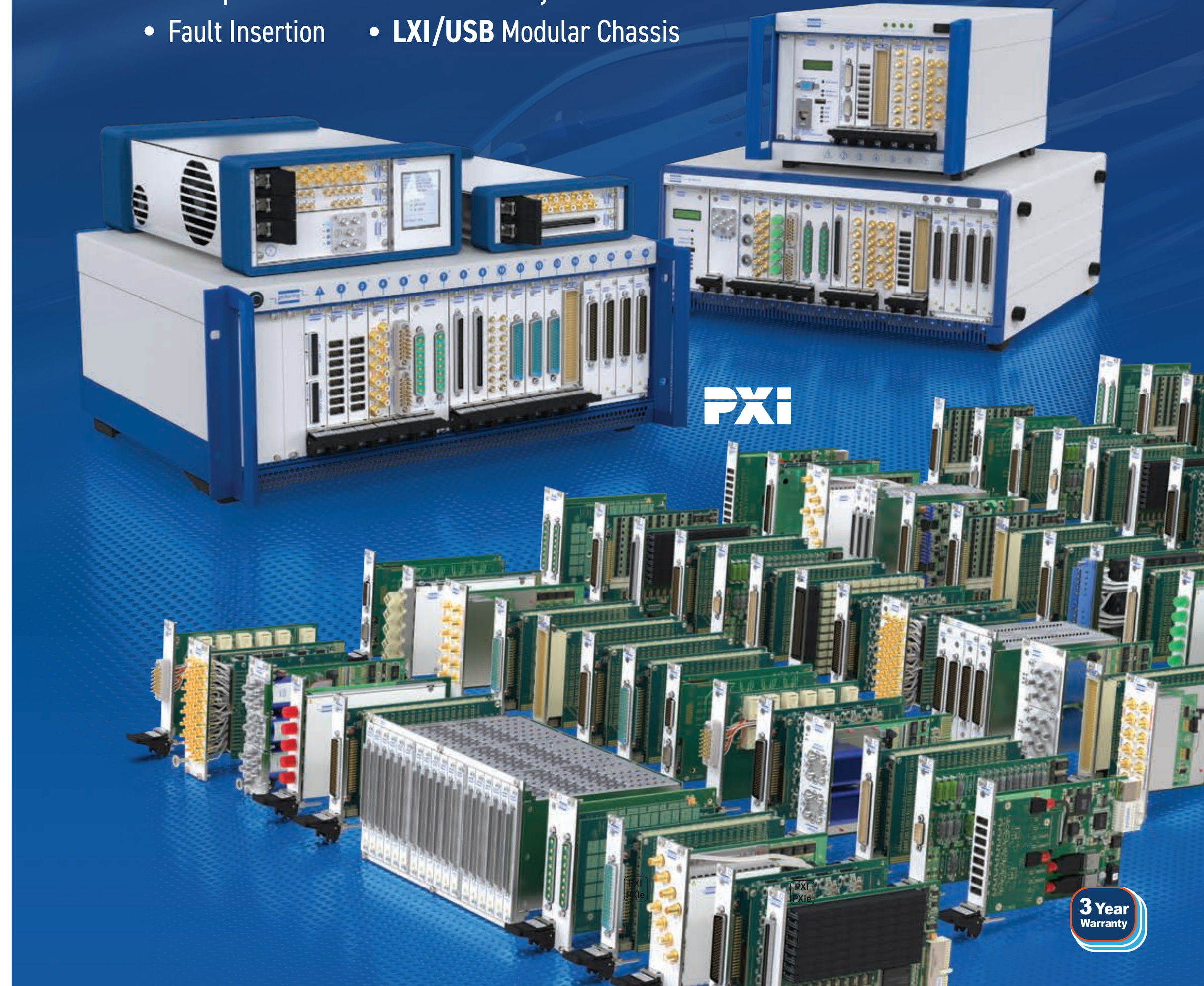
PXI Switching Map with 1000+ Modules

- Relays
- Matrices
- Multiplexers
- Fault Insertion
- RF, Microwave & Optical
- Connectivity & Cables
- **PXI** & **PXIe** Hybrid Chassis
- **LXI/USB** Modular Chassis



Pickering's **PXI Switching Map** provides a reference to our range of **1000+ PXI** and **PXIe Switch modules**, including their basic specifications and cabling options.

For information on our range of Simulation and Instrumentation products, please see our **PXI Simulation & Instrumentation** Map.

For information on our range of connection solutions, please see our **Cables & Connectors** Map.

pickeringtest.com
2023

Switching from Pickering

At Pickering, we understand that to design, deploy and sustain your test system can be challenging, and we believe in offering you the PXI, PCI, LXI & USB products and services to help your engineering team get the job done on time and on budget.

- All our products come with a standard 3-year warranty and long-term support of typically 15 to 20 years
- If our product range doesn't fit your application, we have the agility and expertise to develop a product to your specifications – this includes the design and manufacture of turnkey microwave and optical signal routing sub-assemblies
- We design and manufacture a **full range of supporting cable and connector solutions, including custom cables** – please try out our free graphical on-line **Cable Design Tool** (**pickeringtest.com/cdt**)

Software - Our S/W drivers support all major **Windows** and **Linux** (32 & 64-Bit) platforms and all popular Programming languages including **C/C++**, LabVIEW, LabVIEW RT, .NET, VB, LabWindows/CVI, MATLAB, Python, ATEasy, TestStand, Veristand and Switch Executive. Our drivers include a common Soft Front Panel for manual control and monitoring.

We provide a range of software tools to help streamline the design, deployment and sustainment of our switching systems, including:

- **Signal Routing** – Switch Path Manager (**SPM**) automates signal routing through our switch systems and provides a 50% reduction in program development time
- **Simulation Tools** - Allow users to simulate most of our PXI & LXI products, allowing for code development independent of your application hardware
- **Sequence Manager** - Users can load and execute (via H/W or S/W triggers) predefined switch operations for our modules, accelerating test execution times
- **Diagnostic Test Tools** - *BIRST* (**B**uilt-**i**n **R**elay **S**elf-**T**est) and ***eBIRST*** Test Tools automatically find faulty relays in Pickering switching systems, significantly reducing repair costs and test system downtime

Learn more at **pickeringtest.com/software**.

PXI PXIe Pickering is committed to supporting both the **PXI** and **PXI Express** (**PXIe**) standards and will supply all new modules in both formats whenever possible. We also have an active program to replicate existing **PXI** modules in **PXIe** and already have several hundred **PXIe** modules available. Modules that are available in both formats are identified on this map by the **PXI/PXIe** icon.

Relay Counting - Many modules now feature relay operation counting to determine if a relay is approaching end of life (EOL). This information can be used to **reduce the load on heavily used relays**. Please refer to the specific module datasheet for more information.

Switching | Simulation | Programmable Resistors | Custom Design | Software | Reed Relays | Connectivity & Cables

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