

# Racal Instruments™

## Switch Selection Guide

### Adapt-a-Switch™ Platform

Model No.	Configuration	Max. Voltage	Max. Current	Max. Power	Max. Frequency	Connection Type	Comments
<b>Digital Test</b>							
<b>1260-114TTL</b>	96 Discrete I/O, TTL	5.5V	15mA source 24mA sink	120mW	200KHz	160-pin DIN (not supplied)	
<b>1260-114CMOS</b>	96 Discrete I/O, CMOS	5.5V	8mA source or sink	40mW	200KHz	160-pin DIN (not supplied)	
<b>1260-114OC</b>	96 Discrete I/O, open-collector	32V	200mA sink	6.4W	200KHz	160-pin DIN (not supplied)	
<b>1260-114HVOC</b>	48 Discrete I/O, high-voltage open-collector	50V	1.5A sink	75W	200KHz	160-pin DIN (not supplied)	
<b>1260-115A</b>	96 I/O, open collector	32V	200mA sink			160-pin DIN (not supplied)	
<b>1260-115B</b>	48 I/O, open collector	50V	1.5A sink			160-pin DIN (not supplied)	
<b>General Purpose</b>							
<b>1260-111</b>	12-Chan Form A SPST and 12-Chan Form B SPST	1kVDC or 1kVAC	2A DC or 2A AC	60W or 60VA	60MHz (-3dB)	48-pin DIN (not supplied)	
<b>1260-111A</b>	12-Chan SPDT						
<b>1260-112</b>	20-Chan. DPDT (true differential)	220VDC or 250VAC	2A DC or 2A AC	60W or 125VA	120MHz (-3dB)	160-pin DIN (not supplied)	
<b>1260-117</b>	52-Chan. SPDT	300VDC or 300VAC	2A DC or 2A AC	60W or 125VA	60MHz (-3dB)	160-pin DIN (not supplied)	
<b>1260-117A</b>	20-Chan. SPDT						
<b>1260-118</b>	80-Chan. SPST	300VDC or 300VAC	2A DC or 2A AC	60W or 125VA	100MHz (-3dB)	160-pin DIN (not supplied)	
<b>1260-118A</b>	24-Chan. SPST						
<b>Multiplexers</b>							
<b>1260-131A</b>	10 SP4T	220VDC or 250VAC	1A DC or AC	30W 125VA	200MHz (-3dB)	IDC Conn	
<b>1260-131B</b>	26-Chan SP4T		2A DC or AC	60W, 125VA		160-pin DIN (not supplied)	
<b>1260-132</b>	1x23, Two-wire	1kVDC or 1kVAC	2A DC or AC	60W or 60VA	5MHz (-3dB)	48-pin DIN (not supplied)	
<b>1260-X133</b>	26 (1x4) or 5 (2x8) and 12 (1x2)	300V DC or AC	2A DC or AC	60W 62.5VA	30MHz (1x4) 60MHz (1x2) (-3dB)	160-pin DIN (not supplied)	X-Series
<b>1260-134</b>	16 (1x4), Two-wire	220VDC or 250VAC	2A DC or AC	60W or 125VA	100MHz (-3dB)	160-pin DIN (not supplied)	
<b>1260-136B</b>	2 (1x21) or 1 (1x42)	500VDC or 500VAC	0.5A DC or 0.5 AC	10W or 10VA	N/A	48-pin DIN (not supplied)	Reed relay
<b>1260-136C</b>	2 (1x21) or 1 (1x42)	1KVDC or 1KVAC	1A DC Or AC	25W or 25VA	N/A	48-pin DIN (not supplied)	Reed relay
<b>1260-136D</b>	2 (1x21) or 1 (1x42)	500VDC or 500VAC	1A DC or AC	50W or 50VA	N/A	48-pin DIN (not supplied)	Mercury-wetted, used in vertical position.
<b>1260-X138</b>	8 (1x8) 2-wire or 1 (2x24) and 2 (1x8) 2-wire	300V DC or AC	2A DC or AC	60W 62.5VA	40MHz (1x4)	160-pin DIN (not supplied)	X-Series
<b>1260-138A</b>	8 (1x8), Two-wire	300VDC or 300VAC	2A DC or 2A AC	60W or 125VA	>85MHz/(1x8), >4MHz/(1x64), (-3dB)	160-pin DIN (not supplied)	Software configurable to 384 channels with six cards via analog bus.

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<b>Power</b>							
<b>1260-116</b>	24-Chan. SPDT	30V DC or 250V AC	5A AC or DC	150W 1250VA	50 MHz (-3dB)	Mating connector body & pins (supplied)	
<b>1260-120</b>	20-Chan. SPST	125V DC or 250V AC	10A DC or 13A AC	300W 2000VA	Power: 400Hz Small Signal: 50MHz (-3dB)	Rack and panel with power pins (supplied)	Front panel fail-safe connect (used for local or global reset).
<b>1260-121A</b>	12-Chan. SPDT	125V DC or 250V AC	10A DC or to 13A AC	150W 1250VA	Power: 400Hz Small Signal: 35MHz (-3dB)	Terminal block interface	Front panel fail-safe connect (used for local or global reset).
<b>1260-121B</b>						Rack and panel with power pins (supplied)	
<b>1260-X121</b>	20-Chan. SPST 10-Chan. SPDT	230V DC or 440V AC	10A DC or AC	300W 2500VA	300kHz (-3dB)	Two 20-pin connectors (not supplied)	X-Series
<b>Matrix</b>							
<b>1260-145A</b>	9 (4x4), Two-wire	250VDC or 250VAC	1A DC or AC	30W or 37.5VA	1260-145A, 42MHz (-3dB)	160-pin DIN (not supplied)	Uses 4x4 sub- module to configure matrix. Low cost sparing.
<b>1260-145B</b>	3 (4x12), Two-wire						
<b>1260-145C</b>	2 (4x16), Two-wire						
<b>1260-145D</b>	1 (4x36), Two-wire						
<b>1260-145E</b>	2 (8x8), Two-wire						
<b>1260-145F</b>	1 (8x16), Two-wire						
<b>1260-145G</b>	1 (12x12), Two-wire						
<b>RF</b>							
<b>1260-150</b>	10 (1x4)	100V DC or 100V AC	250mA AC or DC	3W (RF)	500MHz (-3dB)	Mating connector body (supplied); pins (not supplied)	Single coax cables available to alleviate need for crimp tools.
<b>1260-152</b>	20-Chan. SPDT, 50 Ohm	30V DC or 30V AC	0.5A AC or DC	10W (RF)	1.2 GHz (50 Ohm) (-3dB)	Mating connector body (supplied); pins (not supplied)	Single coax cables available to alleviate need for crimp tools.
<b>1260-172</b>	20-Chan. SPDT, 75 Ohm				900MHz (75 Ohm) (-3dB)		
<b>1260-152HV</b>	20-Chan. SPST & 2- Chan. SPDT, 50 Ohm	500V DC or 500V AC	0.5A AC or DC	10W (RF)	700MHz (-3dB)	Mating connector body (supplied); pins (not supplied)	For high voltage and frequency applications. Single coax cables available to alleviate need for crimp tools.
<b>1260-172HV</b>	20-Chan. SPST & 2- Chan. SPDT, 75 Ohm						
<b>1260-155</b>	2 (SP4T), 50 Ohm	30V DC or 30V AC	0.5A AC or DC 0.5A AC or DC	10W (RF)	1.5 GHz (50 Ohm) (-3dB)	MCX Connectors	
<b>1260-155A</b>					3 GHz (-3dB)		
<b>1260-155T</b>	2 (SP4T), 50 Ohm, Self-Terminating	5V DC or 5V AC		1W (RF)	1.5 GHz (50 Ohm) (-3dB)		
<b>1260-155AT</b>					3 GHz (-3dB)		
<b>1260-X153</b>	10 (1x4) or 8 (1x4) and 4 (1x2)	200V peak	1A DC or AC (switched) 2A DC or AC (carry)	30W 1W RF	1 GHz (-3dB)	Two 26-pin connectors (not supplied)	X-Series Single coax cables available to alleviate need for crimp tools

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<b>Microwave</b>							
<b>1260-160B</b>	2(SPDT)	NA	NA	120W @ 3GHz	18GHz	SMA connectors on front panel	5,000,000 cycle switch life
<b>1260-160E</b>	5(SPDT)						
<b>1260-162A</b>	1 (2x2 Transfer Switch)	NA	NA	490W @ 100 MHz 50W @ 18 GHz	18GHz	SMA connectors on front panel	Microwave Transfer Switch
<b>1260-162B</b>	2 (2x2 Transfer Switch)						
<b>1260-164A</b>	SP4T	NA	NA	490W @ 100 MHz 50W @ 18 GHz	18GHz	SMA connectors on front panel	New slotted deep hex socket available for easier SMA connections.
<b>1260-164B</b>	2 (SP4T)						
<b>1260-167A</b>	SP6T	NA	NA	490W @ 100 MHz 50W @ 18 GHz	18GHz	SMA connectors on front panel	New slotted deep hex socket available for easier SMA connections.
<b>1260-167B</b>	2 (SP6T)						
<b>Development</b>							
<b>1260-700</b>	<ul style="list-style-type: none"> <li>Adapt-a-Switch™ Prototyping Module, fits 1256 or 1260-100</li> <li>88 Digital I/O Control Lines</li> <li>6" x 3.5" Prototyping area, 0.1" by 0.1" grid</li> <li>Interface and Prototype PCB available separately for additional flexibility</li> <li>Front Panels available as blank or pre-punched (64 pin and 160 pin connectors currently available)</li> </ul>						Interface can be used with Customer designed PCB

### Carriers and Accessories

Model No.	Features	Comments
<b>1260-100</b>	<ul style="list-style-type: none"> <li>Easy access, front-loading switch modules</li> <li>Analog bus expands matrices or multiplexers</li> <li>Modular package allows up to 50% more switching</li> <li>Each two-slot carrier accepts six Adapt-a-Switch™ plug-ins</li> <li>EMI/RFI shields between plug-ins</li> </ul>	Requires Option 01T Not compatible with Option 01
<b>1260-101</b>	<ul style="list-style-type: none"> <li>Easy access, front-loading switch modules</li> <li>Analog bus expands matrices or multiplexers</li> <li>Modular package allows up to 50% more switching</li> <li>Each one-slot carrier accepts two Adapt-a-Switch™ plug-ins</li> <li>EMI/RFI shields between plug-ins</li> </ul>	Requires Option 01T Not compatible with Option 01
<b>1260-100X</b>	<ul style="list-style-type: none"> <li>Easy access, front-loading switch plug-ins</li> <li>Analog bus expands matrices or multiplexers</li> <li>Modular package allows over 50% more switching</li> <li>Each two-slot carrier accepts six X-Series Adapt-a-Switch™ plug-ins</li> <li>EMI/RFI shields between plug-ins</li> </ul>	Requires an Opt 01T to be mounted in an adjacent slot to the left
<b>1256 Switching System</b>	<ul style="list-style-type: none"> <li>Ethernet/GPIB/RS-232 remote interface</li> <li>Accepts up to eight Adapt-a-Switch™ plug-ins</li> <li>Front panel controls, SCPI command set</li> <li>LabVIEW and LabWindows/CVI drivers</li> <li>High performance in a compact 2U rack-mountable package</li> </ul>	Rackmount ears are optional
<b>Option 01T Installed</b>	<ul style="list-style-type: none"> <li>Register-based for high-speed switching</li> <li>Message-based for programming ease</li> <li>IEEE-488 and SCPI</li> <li>Control up to twelve Adapt-a-Switch™ Plug-ins or 1260 Series switch cards</li> </ul>	Not compatible with Option 01 syntax