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There are 30 plug-in modules including multiplexer, RF multiplexer, fiber-optical multiplexer, general-purpose relay, matrix, digital input/output, Form-C, breadboard, multifunction modules. Please refer following table for plug-in module selection.

Plug-in Module Selection Table

Module	Description	Max. Voltage	Max. Current per Chan.	Initial Closed Channel Resistance	Thermal Offset per Chan.	Bandwidth	Connection Type	Relay Cycle Counter
Multiplexer Modules								
N2260A	40-channel	200V	1A	<1 Ω	<3μV	10MHz	T or C	Yes
N2266A	40-channel	200V	0.5A	<1 Ω	<50μV	40MHz	T or C	Yes
N2270A	10-channel	1000V	1A	<1 Ω	<200μV	5 MHz	Crimp & Insert	Yes
44470A	10-channel	250V	2A	<1 Ω	<3μV	10MHz	T	
44470D	20-channel	250V	2A	<1 Ω	<3μV	10MHz	T	
General-purpose Relay Modules								
N2261A	40-channel	200V	1A	<0.5 Ω	<3μV	10MHz	T or C	Yes
N2267A	8-channel	250V	8A	<0.08 Ω	<3μV	20MHz	Crimp & Insert	Yes
44471A	10-channel	250V	2A	<1 Ω	<3μV	10MHz	T	
44471D	20-channel	250V	1A	<1 Ω	<3μV	10MHz	T	
44477A	7-channel	250V	2A	<1 Ω	<3μV	10MHz	T	
Matrix Modules								
N2262A	4 x 8 matrix	200V	1A	<1 Ω	<3μV	10MHz	T or C	Yes
44473A	4 x 4 matrix	250V	2A	<1 Ω	<3μV	10MHz	T	
Digital I/O Modules								
N2263A	32-bit TTL	42V	0.6A	NA	NA	NA	T or C	
44474 A	16-bit TTL	30V	0.125A	NA	NA	NA	T	
Multifunction Modules								
N2264A	12 GP	200V	1A	<0.5 Ω	<3μV	10MHz	T or C	Yes
	3 GP	125V	5A	<0.1 Ω	<3μV	10MHz	T or C	Yes
	16-bit DIO	42V	0.6A	NA	NA	NA	T or C	
N2265A	4 x 4 matrix	200V	1A	<1 Ω	<3μV	10MHz	T or C	Yes
	16-bit DIO	42V	0.6A	NA	NA	NA	T or C	
N2269A	2 DAC	12V	10mA	NA	NA	NA	T or C	
	16-bit DIO	TTL-compatible	NA	NA	NA	NA	T or C	

Note: GP = General-purpose, DIO = Digital I/O, T = Terminal Block, C = Cable.

Fiber-optical Multiplexer Modules (typical specs)

Modules	Description	Insertion loss	Stability	Repeatability	Wavelength	Connector	Switching Time	
N2280A	Quad 1 x 2	0.5 dB	± 0.03dB	± 0.005dB	1310/1550 nm	SC/APC	15 ms	
N2281A	Dual 1 x 4	0.5 dB	± 0.03dB	± 0.0065dB	1310/1550 nm	SC/APC	20 ms	
N2282A	Single 1 x 8	0.5 dB	± 0.02dB	± 0.005/0.01dB	1270/1670 nm	SC/APC	250 ms	

RF & Microwave Modules

Modules	Description	Insertion loss	Cross talk	SWR	Bandwidth	Impedance	Connector	
N2268A	Dual 1 x 4	<0.35dB	<-64dB	<1.20	3.5 GHz	50 Ω	SMA	
N2272A	Single 1 x 9	<0.5dB	<-75dB	<1.20	1.0 GHz	50 Ω	BNC	
N2276A	Dual 1 x 6	<0.36dB	<-100dB	<1.20	20 GHz	50 Ω	SMA	
N2276B	Relay driver can support 2 microwave switches. Technical specs depend on the mounted relays.							
44472A	Dual 1 x 4	<0.75dB	<-85dB	<1.12	300 MHz	50 Ω	BNC	
44478A	Dual 1 x 4	<1.1dB	<-70dB	<1.35	1.3 GHz	50 Ω	BNC	
44478B	Dual 1 x 4	<1.1dB	<-70dB	<1.35	1.3 GHz	75 Ω	BNC	
44476A	Triple 1 x 2	<0.25dB	<-90dB	<1.15	18 GHz	50 Ω	SMA	
44476B	Relay driver can support 2 microwave switches. Technical specs depend on the mounted relays.							

Module Connection Accessories

N2290A	Screw terminal block for N2260A, N2266A	N2295A	Screw terminal block for N2265A
N2291A	Screw terminal block for N2261A	N2329A	Screw terminal block for N2269A
N2292A	Screw terminal block for N2262A	N2327A	Crimp & Insert Connection kit for N2267A
N2293A	Screw terminal block for N2263A	N2320A	Crimp & Insert Connection kit for N2270A
N2294A	Screw terminal block for N2264A		
N2296A	Crimp & insert terminal block for N2260/1/2/3/4/5/6A.		
N2297A	1.5 m cable for connecting DUT to N2260/1/3/4/5/6A, one DIN96-to-Twin-D50.		
N2298A	1.5 m cable for connecting to DUT to N2262A, one DIN96-to-D25.		
N2299A	1.5 m cable for connecting to N2260/1/3/4/5/6A, one DIN96-to-Quad D25.		

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Ordering Information

Agilent Technologies Products
Mainframes

3499A 5-Slot Switch/Control Mainframe, includes hard copy manual and power cord. Plug-in modules are ordered separately and are required for operation.

3499A-0B0 Delete Hard Copy User's Manual

3499A-1CP Rack Mount Kit with Handles

3499A-1CM Rack Mount Kit

3499A-0B1 Add additional User's Manual

3499B 2-Slot Switch/Control Mainframe, includes hard copy manual and power cord. Plug-in modules are ordered separately and are required for operation.

3499B-0B0 Delete Hard Copy User's Manual

3499B-1CM Rack Mount Kit with half-rack filler panel

3499B-0B1 Add additional User's Manual

3499C 9/14-Slot Switch/Control Mainframe. User's manual is not included. Must order 3499C-0B1 for hardcopy of the User's Manual. Plug-in modules are ordered separately and are required for operation.

3499C-0B1 Hardcopy of User's Manual

For rackmount kit w/o handles, order the Agilent standard cabinet accessory 5063-9216

For rackmount kit with handles, order the Agilent standard cabinet accessory 5063-9223.

Mainframe Filler Panels

3499C-FP1 1-slot width filler panel for 3499A/B/C mainframes

3499C-FP2 2-slot width filler panel for 3499A/B/C mainframes

Plug-in modules, screw terminal blocks NOT included

N2260A 40-channel Multiplexer Module

N2261A 40-channel General Purpose Relay Module

N2262A 4 x 8 Matrix Module

N2263A 32-bit Digital I/O Module

N2264A 12 + 3 GP + 16-bit Digital I/O Module

N2265A 4 x 4 Matrix + 16-bit Digital I/O Module

N2266A 40-channel High-speed Multiplexer Module

N2267A 8-channel 8 A General Purpose Relay Module

N2268A Dual 1 x 4 RF (3.5 GHz) Multiplexer Module

N2269A 32-bit Optical Isolated DIO + 2 DACs Module

N2270A 10-channel 1000 V Multiplexer Module

N2272A 1 x 9 RF (1GHz) Multiplexer Module

N2276A Dual 1 x 6 Microwave Multiplexer Module

N2276A-204 Dual 1 x 4 Multiplexer

N2276A-206 Dual 1 x 6 Multiplexer

N2276B Microwave Multiplexer Driver Module

N2280A Quad Optical 1 x 2 Multiplexer Module, SC/APC

N2281A Dual Optical 1 x 4 Multiplexer Module, SC/APC

N2282A 1 x 8 Optical Multiplexer Module, SC/APC

N2289A Mini-DIN-to-D9 cable for built-in DIO in 3499A/B

N2290A Screw terminal block for N2260A and N2266A

N2291A Screw terminal block for N2261A

N2292A Screw terminal block for N2262A

N2293A Screw terminal block for N2263A

N2294A Screw terminal block for N2264A

N2295A Screw terminal block for N2265A

N2296A Crimp & Insert terminal block for N2260-5A

N2297A DIN96-to-Twin-D50 cable for N2260-5A

N2298A DIN96-to-D25 cable for N2262A

N2299A DIN96-to-Quad-D25 cable for N2260-5A

N2320A Crimp & Insert Connection kit for N2270A

N2327A Crimp & Insert Connection kit for N2267A

N2329A Screw Connection Kit for N2269A

Plug-in modules (Agilent 3488A family), screw terminal blocks included

44470A 10-channel Relay Multiplexer Module

44470D 20-channel Relay Multiplexer Module

44471A 10-channel GP Relay Module

44471D 20-channel GP Relay Module

44472A Dual 1 x 4 RF (300MHz) Multiplexer Module (50Ω)

44473A 4x4 Matrix Switch Module

44474A 16-bit Digital I/O Module

44475A Breadboard Module

44476A Microwave Multiplexer Module

44476B Microwave Switch Driver Module

44477A 7-channel Form-C Relay Module

44478A Dual 1x4 RF (1.3 GHz) Multiplexer (50Ω)

44478B Dual 1x4 RF (1.3 GHz) Multiplexer (75Ω)

44480A Connector Kit for 44470A

44480B Connector Kit for 44470D

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