

VIAVI

MAP Optical Switch Solutions (mISW-C1)

Optical Switch Tray

The mISW-C1 Optical Switch module is the industry standard for manufacturing test automation applications and has the widest array of switch options in the industry. A member of the LightDirect Family of MAP series modules the mISW-C1 is optimized for switch configurations with more than 24 channels.

The 2U MAP-202C chassis is required for channel counts from 24 to 72.

The 4U MAP-204C chassis is required for channel counts from 96 to 176.

Configuration Process

All mISW switches are configured by a single part number that defines the function and options of the switch.

The structure of the part number mISW-C1**ABBCCDE-MXXX-MYY** is as follows:

- **A** refers to the number of independent mOSW-C1 switches in the module (currently only 1)
- **BB** refers to the switch type and defines the input type (1C, 2D1, 2E)
- **CCC** defines the number of outputs (from 024 to 176, increments shown in table)
- **D** defines the termination type (B for bulkhead, Q for 3m pigtails, R for 10m pigtails).
- **E** defines the options (0 = no option, 1 = Power Trim option2)
- **MXXX** defines the fiber type, refer to Table 1
- **MYY** defines the connector type, refer to Table 2



Table 1

Code	Fibre Type
M100	9µm Single Mode
M101	50µm (OM3)
M102	62.5µm (OM1)
M105 ³	100µm

Table 2

Code	Connector Type
MFP	FC/PC
MFA	FC/APC
MSC	SC/PC
MSU	SC/APC
MLC	LC/PC
MLU	LC/APC

Notes

1. D Config part numbers indicate the number of switchable output states. The total number of physical output connectors will be 2X the number of states i.e. 2Dx024 has 48 output connectors
2. Power Trim option is available only for single mode 1C type switch with <=72 ports
3. 100µm fiber type is available only for FC bulkhead termination with <=72 ports



Available Configurations

MISW-C1, 24 to 72 outputs

Number of Switches	Input Type	Connectivity	Switch Fabric	Part Number	
One switch per module	1C (Single Input)	Bulkhead	1Cx24	MISW-C111C024BE-MXXX-MYY	
			1Cx32	MISW-C111C032BE-MXXX-MYY	
			1Cx48	MISW-C111C048BE-MXXX-MYY	
			1Cx72	MISW-C111C072BE-MXXX-MYY	
		3m Pigtail	1Cx32	MISW-C111C032QE-MXXX-MYY	
			1Cx48	MISW-C111C048QE-MXXX-MYY	
			1Cx72	MISW-C111C072QE-MXXX-MYY	
		10m Pigtail	1Cx48	MISW-C111C048RE-MXXX-MYY	
			1Cx72	MISW-C111C072RE-MXXX-MYY	
		2D (Duplex)	Bulkhead	2Dx12	MISW-C112D012B0-MXXX-MYY
				2Dx16	MISW-C112D016B0-MXXX-MYY
				2Dx24	MISW-C112D024B0-MXXX-MYY
	2Dx36			MISW-C112D036B0-MXXX-MYY	
	3m Pigtail		2Dx16	MISW-C112D016Q0-MXXX-MYY	
			2Dx24	MISW-C112D024Q0-MXXX-MYY	
			2Dx36	MISW-C112D036Q0-MXXX-MYY	
	10m Pigtail		2Dx24	MISW-C112D024R0-MXXX-MYY	
			2Dx36	MISW-C112D036R0-MXXX-MYY	
	2E (Dual input, every channel)		Bulkhead	2Dx24	MISW-C112E024B0-MXXX-MYY
				2Dx32	MISW-C112E032B0-MXXX-MYY
				2Ex48	MISW-C112E048B0-MXXX-MYY
		2Ex72		MISW-C112E072B0-MXXX-MYY	
		3m Pigtail	2Ex32	MISW-C112E032Q0-MXXX-MYY	
			2Ex48	MISW-C112E048Q0-MXXX-MYY	
2Ex72			MISW-C112E072Q0-MXXX-MYY		
10m Pigtail		2Ex48	MISW-C112E048R0-MXXX-MYY		
		2Ex72	MISW-C112E072R0-MXXX-MYY		

Select the required options for E, fiber type XXX & connector type YY

Mandatory Chassis for the Modules Above (<= 72 output ports)

Description	Part Number
MAP-202C LightDirect, 2 U, 19-in, bench-top chassis	MAP-202C-A
MAP-202C LightDirect, 2 U, 19-in, rack-mount chassis	MAP-202CX-A
MAP-202C LightDirect, 2 U, 19-in, reverse rack-mount chassis	MAP-202CXR-A

Available Configurations Continued

MISW-C1, 96 to 176 outputs

Number of Switches	Input Type	Connectivity	Switch Fabric	Part Number
One switch per module	1C (Single Input)	Bulkhead	1Cx96	MISW-C111C096B0-MXXX-MYY
			1Cx136	MISW-C111C136B0-MXXX-MYY
			1Cx176	MISW-C111C176B0-MXXX-MYY
		3m Pigtail	1Cx136	MISW-C111C136Q0-MXXX-MYY
			1Cx176	MISW-C111C176Q0-MXXX-MYY
			1Cx136	MISW-C111C136R0-MXXX-MYY
	2E (Dual input, every channel)	Bulkhead	1Cx96	MISW-C112E096B0-MXXX-MYY
			1Cx136	MISW-C112E136B0-MXXX-MYY
			1Cx176	MISW-C112E176B0-MXXX-MYY
		3m Pigtail	1Cx136	MISW-C112E136Q0-MXXX-MYY
			1Cx176	MISW-C112E176Q0-MXXX-MYY
		10m Pigtail	1Cx136	MISW-C112E136R0-MXXX-MYY
			1Cx176	MISW-C112E176R0-MXXX-MYY

Select the required options for E, fiber type XXX & connector type YY

Mandatory Chassis for the Modules Above (72 to 176 output ports)

Description	Part Number
MAP-204C LightDirect, 2 U, 19-in, rack-mount chassis	MAP-204CX-A
MAP-204C LightDirect, 2 U, 19-in, reverse rack-mount chassis	MAP-204CXR-A

mISW GPIB Options

Description	Part Number
MAP-200 GPIB plug-in option for 220C/202C/204C chassis	MAP-200CGPIB-A

Additional Test Reports for Single-Mode Versions

Description	Part Number
Bidirectional test report for single switch with 13 to 24 ports for use with mISW/MAP-202 chassis	MBIDTEST1-024
Bidirectional test report for single switch with 25 to 48 ports for use with mISW/MAP-202 chassis	MBIDTEST1-048
Bidirectional test report for single switch with 49 to 96 ports for use with mISW/MAP-202/204 chassis	MBIDTEST1-096
Bidirectional test report for single switch with 97 to 176 ports for use with mISW/MAP-204 chassis	MBIDTEST1-176

Replacement Parts

Description	Part Number
MAP-220C LightDirect controller replacement	MAP-200CLD-A
MAP-200 rack-mount kit for 220C/202C/204C chassis	MAP-200C01
MAP-200 bench-top kit for 220C/202C/204C chassis	MAP-200C02
Capacitive stylus for MAP-200 controller	MAP-200A18



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