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Small-Form Factor Pluggable (SFP) and Stacking Accessories

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This article provides technical data on Fiber Transceivers and stacking accessories compatible with Meraki devices.

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Cisco Meraki offers branded SFP modules, and while we do not prevent third-party accessories from functioning, users should conduct their own tests to ensure proper compatibility.

Note: regarding switches series

If not specified otherwise, all switches below under "Compatibility" columns, include any model within the series, for example, MS120 on the table represents:

- MS120-24-HW
- MS120-24P-HW
- MS120-48-HW
- MS120-48LP-HW
- MS120-48FP-HW

Fiber Transceivers

Meraki 1000Base SX Multi-Mode

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-1GB-SX	1000BASE-SX	850	MMF	OM1	62.5 μm / 125 μm	Orange	220 m	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600 MS120 / MS125 MS130 / MS210 / MS225 MS250 / MS350 MS355 MS390 / C9300 MS410 / MS425
MA-SFP-1GB-SX	1000BASE-SX	850	MMF	OM2	50 μm / 125 μm	Orange	550 m	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 . MX450 / MX600 MS120 / MS125 MS130 / MS210 / MS225 MS250 / MS350 MS355 MS390 / C9300 MS410 / MS425
MA-SFP-1GB-SX	1000BASE-SX	850	MMF	OM3	50 μm / 125 μm	Aqua	550 m	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600 MS120 / MS125 MS130 / MS210 MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-1GB-SX	1000BASE-SX	850	MMF	OM4	50 µm / 125 µm	Aqua	1 km	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600 MS120 / MS125 MS130 / MS210 MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425

Meraki 1000Base LX10 Single-Mode

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-1GB-LX10	1000BASE-LX10	1310	SMF	OS1/OS2	9 µm / 125 µm	Yellow	10 km	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600 MS120 / MS125 MS130 / MS210 / MS225 MS250 / MS350 MS355 MS390 / C9300 MS410 / MS425
MA-SFP-1GB-LX10	1000BASE-LX10	1310	MMF	with LC mode conditioning cable	N/A	Yellow / Orange	550 m	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600 MS120 / MS125 MS130 / MS210 / MS225 MS250 / MS350 MS355 MS390 / C9300 MS410 / MS425

Meraki 1 GbE SFP Copper Module

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-1GB-TX	1000BASE-T	N/A	N/A	N/A	N/A	N/A	100 m	Gigabit	All MXes All MSes, except MS130R/ MS390/ C9300

Meraki 10G Base SR Multi-Mode

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM1	62.5 µm / 125 µm	Orange	26 m	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 / MX600 MS125 / MS130-X MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM2	50 µm / 125 µm	Orange	82 m	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 / MX600 MS125 / MS130-X MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM3	50 µm / 125 µm	Aqua	300 m	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 / MX600 MS125 / MS130-X MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM4	50 µm / 125 µm	Aqua	400 m	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 / MX600 MS125 / MS130-X MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425

Meraki 10G Base LR Single-Mode

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-LR	10GBASE-LR	1310	SMF	OS1/OS2	9 µm / 125 µm	Yellow	10 km	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 / MX600 MS125 / MS130-X MS225 / MS250 MS350 / MS355 MS390 / C9300 MS410 / MS425

Meraki 10G Base LRM Multi-Mode

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-LRM	10GBASE-LRM	1310	MMF	OM1	62.5 µm / 125 µm	Orange	220 m	10 Gigabit	MS225 / MS250 MS350 / MS355 MS390/C9300** MS410 / MS425
MA-SFP-10GB-LRM	10GBASE-LRM	1310	MMF	OM2	50 µm / 125 µm	Orange	220 m *	10 Gigabit	MS225 / MS250 MS350 / MS355 MS390/C9300** MS410 / MS425
MA-SFP-10GB-LRM	10GBASE-LRM	1310	MMF	OM3	50 µm / 125 µm	Aqua	220 m	10 Gigabit	MS225 / MS250 MS350 / MS355 MS390/C9300**

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-LRM	10GBASE-LRM	1310	SMF	OS1/OS2	9 µm / 125 µm	Yellow	300 m	10 Gigabit	MS410 / MS425 MX95 / MX105 / MX250 MX400 / MX450 / MX600 MS390/C9300** MS225 / MS250 MS350 / MS355 MS410 / MS425

* Modal bandwidth at 500MHz/km

**NOTE: Catalyst 9300X switches do not support LRM modules.

Meraki 10G Base ER Module

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-ER **	10GBASE-ER	1550	SMF	OS1/OS2	9 µm / 125 µm	Yellow	40 km	10 Gigabit	MX95 / MX105 MX250 / MX450 MS130-X / MS225 MS250 / MS350 MS355 MS390 / C9300 MS410 / MS425

** Please refer to the [MS125 Overview and Specifications](#) for additional compatibility data.

Meraki 10G Base ZR Module

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-SFP-10GB-ZR	10GBASE-ZR	1550	SMF	OS1/OS2	9 µm / 125 µm	Yellow	80 km	10 Gigabit	MX95 / MX105 MX250 / MX450 MS225 / MS250 MS350 / MS355 MS410 / MS425

Meraki SR4 QSFP 40G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-40G-SR4	QSFP - MPO12	850	MMF	OM2, OM3, OM4	50 µm / -	Aqua	30 m, 100 m, 150 m	40 Gigabit	MS355 MS390 / C9300 MS425 / MS450

Meraki LR4 QSFP 40G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-40G-LR4	QSFP - LC	1310	SMF	OS1, OS2	G.652 / -	Yellow	10 km	40 Gigabit	MS355 MS390 / C9300 MS425 / MS450

Meraki CSR4 QSFP 40G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-40G-CSR4	QSFP - MPO12	850	MMF	OM2, OM3, OM4	50 µm / -	Aqua	82 m, 300 m, 400 m	40 Gigabit	MS355 MS390 / C9300 MS425 / MS450

Meraki SR-BD QSFP 40G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-40G-SR-BD	QSFP - Duplex LC	832-918	MMF	OM2, OM3, OM4	50 µm / -	Aqua	30 m, 100 m, 150 m	40 Gigabit	MS355 MS390 / C9300 MS425 / MS450

Meraki LR4 QSFP 100G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-100G-LR4	100GBASE-LR4	1295, 1300, 1304, 1309	SMF	OS1, OS2	G.652 / -	Yellow	10 km	100 Gigabit	MS450

Meraki SR4 QSFP 100G Transceiver

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
MA-QSFP-100G-SR4	100GBASE-SR4	850	MMF	OM3, OM4/OM5	50 µm / -	Aqua	70 m, 100 m	100 Gigabit	MS450

Direct Attach

Meraki Product ID	Standard	Cable Length	Assembly Type	Data Rate	Compatibility
MA-CBL-TA-1M	10GSFP+Cu	1 m	Passive Twinax	10 Gigabit	MX95 / MX105 MX250 / MX450 MS125 / MS130-X/ MS225 / MS250 MS350 / MS355 / MS390 / C9300 MS410 / MS425
MA-CBL-TA-3M	10GSFP+Cu	3 m	Passive Twinax	10 Gigabit	MX95 / MX105 MX250 / MX450 MS125 / MS130-X/ MS225 / MS250 MS350 / MS355 / MS390 / C9300 MS410 / MS425

Stacking Cables

Meraki Product ID	Standard	Cable Length	Assembly Type	Data Rate	Compatibility
MA-CBL-40G-50CM	40GQSFP+Cu	50 cm	QSFP+ passive Twinax cable assembly	40 Gigabit	MS210 / MS225 / MS250 MS350 MS410 / MS425
MA-CBL-40G-1M	40GQSFP+Cu	1 m	QSFP+ passive Twinax cable assembly	40 Gigabit	MS210 / MS225 / MS250 MS350 MS410 / MS425
MA-CBL-40G-3M	40GQSFP+Cu	3 m	QSFP+ passive Twinax cable assembly	40 Gigabit	MS210 / MS225 / MS250 MS350 MS410 / MS425
MA-CBL-100G-50CM	100GQSFP28	50 cm	QSFP28 passive Twinax cable assembly	100 Gigabit	MS355 / MS450
MA-CBL-100G-1M	100GQSFP28	1 m	QSFP28 passive Twinax cable assembly	100 Gigabit	MS355 / MS450

Meraki Product ID	Standard	Cable Length	Assembly Type	Data Rate	Compatibility
MA-CBL-100G-3M	100GQSFP28	3 m	QSFP28 passive Twinax cable assembly	100 Gigabit	MS355 / MS450
MA-CBL-120G-50CM	N/A	50 cm	Cisco Meraki 120G stack cable	120 Gigabit (480G)	MS390 / C9300
MA-CBL-120G-1M	N/A	1 m	Cisco Meraki 120G stack cable	120 Gigabit (480G)	MS390 / C9300
MA-CBL-120G-3M	N/A	3 m	Cisco Meraki 120G stack cable	120 Gigabit (480G)	MS390 / C9300
STACK-T1-50CM-M	N/A	50 cm	Catalyst 9300/X Stack Cable	480G / 1Tbps	C9300 / C9300X
STACK-T1-1M-M	N/A	1 m	Catalyst 9300/X Stack Cable	480G / 1Tbps	C9300 / C9300X
STACK-T1-3M-M	N/A	3 m	Catalyst 9300/X Stack Cable	480G / 1Tbps	C9300 / C9300X
C9300L-STACK-KIT2-M	two uplink modules and one stacking cable	50 cm	Catalyst 9300L Stacking Kit	320G	C9300L
STACK-T3A-50CM-M	N/A	50 cm	Catalyst 9300L Stacking Cable	320G	C9300L
STACK-T3A-1M-M	N/A	1 m	Catalyst 9300L Stacking Cable	320G	C9300L
STACK-T3A-3M-M	N/A	3 m	Catalyst 9300L Stacking Cable	320G	C9300L

StackPower Cables

Meraki Product ID	Cable Length	Compatibility
MA-CBL-SPWR-30CM	30 cm	MS390
MA-CBL-SPWR-150CM	1.5 m	MS390
CAB-SPWR-30CM-M	30 cm	C9300, C9300X
CAB-SPWR-150CM-M	1.5 m	C9300, C9300X

Uplink Modules

Meraki Product ID	Cable Length	Compatibility
MA-MOD-4x10G*	4-port 1/10G SFP+ Uplink module	MS390, C9300
MA-MOD-8x10G	8-port 1/10G SFP+ Uplink module	MS390, C9300
MA-MOD-2x40G	2-port 40G QSFP+ Uplink module	MS390, C9300
C9300-NM-2Q-M	2-port 40G QSFP+ Uplink module	C9300
C9300-NM-4X*	4-port 10G/1G SFP+ Uplink module	C9300
C9300-NM-8X-M	8-port 1/10G SFP+ Uplink module	C9300
C9300-NM-2Y-M*	2-port 25G/10G/1G SFP28 Uplink module	C9300
C9300X-NM-8Y-M*	8-port 25G/10G/1G SFP28 Uplink module	C9300X
C9300X-NM-2C-M*	2-port 100G/40G QSFP28 Uplink modules	C9300X

Note: The **MA-MOD-4x10G** for the MS390 is end of sale. This includes the **C9300-NM-4X**, which is also supported but will not be available in a -M SKU.

*Note: The **SFP28/QSFP28** modules will be shipping March 2024 with software support in CS16.7. **25Gbps Dashboard support** is slated for **CS17** firmware. 25Gbps optics can be used in CS16.7, but should be considered 'Beta'.

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