Small-Form Factor Pluggable (SFP) and Stacking Accessories

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

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

Cisco Optics Compatibility

*Many of the Cisco Optics that are **compatible*** *with the native Catalyst Switch platform (ex. C9300-24S) are also compatible with the corresponding Cloud Managed/Monitored Catalyst Switch Platform (ex.: C9300-24S-M) including the MS390.*

• This includes: 1/10/25/40/100G SFP/QSFP *fixed wavelength* fiber and copper transceivers,

• Please reference the [TMGmatrix](#) for Cisco's official optic-to-device compatibility list. Click this [LINK](#) for a filtered list of all optics for C9300/C9300L/C9300X platforms

• These compatible optics are covered under the existing Cisco Warranty terms available [here](#)

• Meraki support is able to assist with troubleshooting, identifying, and root-causing the issues where the Cisco Optics are being used with their cloud managed/monitored catalyst Switch

• However, if the root cause indicates that the customer is eligible for an RMA, support will continue to follow established procedures for Cisco branded optics, which may include collaborating with Cisco TAC

Note: Validation of dashboard reporting of Cisco Optics is ongoing. In the event Meraki Support identifies an issue with a Cisco Optic, a support case may be filed for further investigation.

Other non-M accessories

Other accessories such as fan spares, power stacking cables, stackwise cables and power supplies are **compatible*** between non-M and -M models.

Some Examples :

- STACK-T1-50CM is compatible with STACK-T1-50CM-M
- CAB-SPWR-30CM is compatible with CAB-SPWR-30CM-M
- FAN-T2 is compatible with FAN-T2-M
- PWR-C1-1100WAC-P is compatible with PWR-C1-1100WAC-P-M

* Compatibility/ Compatible: The hardware accessory has been determined to operate effectively with the listed switch platforms, and will receive troubleshooting assistance from Cisco Meraki Support in the event of an issue experienced with the hardware. However, in the event of a hardware replacement requirement an additional step may be required to facilitate the RMA which would require collaboration with Cisco TAC under the Cisco warranty terms. Meraki's hardware warranty and return policy and Meraki EOL policy does not apply to Cisco Optics, Cables and accessories in any shape or form.

C8455-G2-MX: The compatible SFP modules on the C8455-G2-MX can be found in the [Here](#).

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

Transceivers List

1G

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 / MS150 / 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	OM2	50 μm / 125 μm	Orange	550 m	Gigabit	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 . MX450 / MX600 MS120 / MS125 MS130 / MS150 / 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 / MS150 / MS210 MS225 / MS250 MS350 / MS355 MS390 / C9300* MS410 / MS425
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 /

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									MX600
									MS120 / MS125 MS130 / MS150 / MS210 MS225 / MS250 MS350 / MS355
									MS390 / C9300*
									MS410 / MS425

* All C9300 series are included.

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
									MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600
MA-SFP-1GB-LX10	1000BASE-LX10	1310	SMF	OS1/OS2	9 μm / 125 μm	Yellow	10 km	Gigabit	MS120 / MS125 MS130 / MS150 / MS210 / MS225 MS250 / MS350 MS355
									MS390 /

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									C9300*
									MS410 / MS425
									MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600
MA-SFP-1GB-LX10	1000BASE-LX10	1310	MMF	with LC mode conditioning cable	N/A	Yellow / Orange	550 m	Gigabit	MS120 / MS125 MS130 / MS150 / MS210 / MS225 MS250 / MS350 MS355
									MS390 / C9300*
									MS410 / MS425

* All C9300 series are included.

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

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									All MSes, *except* MS130R and Catalyst *Not supported* by MS390/ C9300/X/L

10G

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
									MX95 / MX105 MX250 / MX400 MX450 / MX600
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM1	62.5 μm / 125 μm	Orange	26 m	10 Gigabit	MS125 / MS130-X / MS150-4X / MS225 / MS250 MS350 / MS355 MS390 / C9300* MS410 / MS425
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM2	50 μm / 125 μm	Orange	82 m	10 Gigabit	MX95 / MX105 MX250 / MX400 MX450 /

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									MX600
									MS125 / MS130-X / MS150-4X / MS225 / MS250 MS350 / MS355
									MS390 / C9300*
									MS410 / MS425
									MX95 / MX105 MX250 / MX400 MX450 / MX600
MA-SFP-10GB-SR	10GBASE-SR	850	MMF	OM3	50 μm / 125 μm	Aqua	300 m	10 Gigabit	MS125 / MS130-X / MS150-4X / 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 / MS150-4X / MS225 / MS250 MS350 / MS355

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									MS390 / C9300*
									MS410 / MS425

* All C9300 series are included.

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
									MX95 / MX105 MX250 / MX400 MX450 / MX600
MA-SFP-10GB-LR	10GBASE-LR	1310	SMF	OS1/OS2	9 μm / 125 μm	Yellow	10 km	10 Gigabit	MS125 / MS130-X / MS150-4X / MS225 / MS250 MS350 / MS355
									MS390 / C9300*
									MS410 / MS425

* All C9300 series are included.

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

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

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									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 / MS150-4X / MS225 MS250 / MS350 MS355 MS390 / C9300* MS410 / MS425

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

* All C9300 series are included.

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 MS150-4X / MS225 / MS250 MS350 / MS355 MS410 / MS425

40G

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

* All C9300 series are included.

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 /

Meraki Product ID	Standard	Wavelength (nm)	Fiber Type	Fiber Description	Core/ Clad Diameter	Jacket Color	Max Distance	Data Rate	Compatibility
									C9300*
									MS425 / MS450

* All C9300 series are included.

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
									MS355
MA-QSFP-40G-CSR4	QSFP - MPO12	850	MMF	OM2, OM3, OM4	50 μm / -	Aqua	82 m, 300 m, 400 m	40 Gigabit	MS390 / C9300*
									MS425 / MS450

* All C9300 series are included.

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
									MS355
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	MS390 / C9300*
									MS425 / MS450

* All C9300 series are included.

100G

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/ MS150-4X / MS225 / MS250 MS350 / MS355 / MS390 / C9300/ C9300L/ MS410 / MS425 MX95 / MX105 MX250 / MX450
MA-CBL-TA-3M	10GSFP+Cu	3 m	Passive Twinax	10 Gigabit	MS125 / MS130-X/ MS150-4X / MS225 / MS250 MS350 / MS355 / MS390 / C9300/ C9300L/ 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	MS150 / MS355 / MS450
MA-CBL-100G-1M	100GQSFP28	1 m	QSFP28 passive Twinax cable assembly	100 Gigabit	MS150 / MS355 / MS450
MA-CBL-100G-3M	100GQSFP28	3 m	QSFP28 passive Twinax cable assembly	100 Gigabit	MS150 / 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-	N/A	50 cm	Catalyst 9300L	320G	C9300L

Meraki Product ID	Standard	Cable Length	Assembly Type	Data Rate	Compatibility
T3A-50CM-M			Stacking Cable		
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

* All C9300 series are included.

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

* All C9300 series are included.

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 orderable March 2024 with software support in CS16.7. **25Gbps Dashboard support** is slated for **CS17** firmware. 25Gbps optics can be used in CS16.8, but should be considered 'Beta'.

Note: The **C9300X-NM-2C-M modules will operate at **40Gbps** with software support in **CS17** firmware. For **100G** operation, **IOS-XE 17.15+** is required.

***Note: The number of Network Module ports are limited when **C9300X-NM-8Y** are used with the **C9300X-48HXN** models. Only 6 of the 8 ports will be available on a C9300X-48HXN switch.

C9300-NM-2Y-M / C9300-NM-2Y modules are supported only by **C9300-24S/48S** switches in firmware **CS16.7**. Support for the rest of the **C9300-M** portfolio is supported in **CS16.8** firmware.