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# Small-Form Factor Pluggable (SFP) and Stacking Accessories

Last updated: Dec 12, 2023



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 ...	MA-SFP-1GB-SX
Standard	1000BASE-SX

<b>Wavelength (nm)</b>	850
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM1
<b>Core/ Clad Diam...</b>	62.5 µm / 125 µm
<b>Jacket Color</b>	Orange
<b>Max Distance</b>	220 m
<b>Data Rate</b>	Gigabit
<b>Compatibility</b>	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600  MS120 / MS125 MS130 / MS130R MS210 / MS225 MS250 / MS350 MS355  MS390 / C9300  MS410 / MS425

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<b>Meraki Product ...</b>	MA-SFP-1GB-SX
<b>Standard</b>	1000BASE-SX
<b>Wavelength (nm)</b>	850
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM2
<b>Core/ Clad Diam...</b>	50 µm / 125 µm
<b>Jacket Color</b>	Orange
<b>Max Distance</b>	550 m
<b>Data Rate</b>	Gigabit
<b>Compatibility</b>	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 .MX450 / MX600  MS120 / MS125 MS130 / MS130R MS210 / MS225 MS250 / MS350 MS355  MS390 / C9300  MS410 / MS425

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<b>Meraki Product ...</b>	MA-SFP-1GB-SX
<b>Standard</b>	1000BASE-SX

<b>Wavelength (nm)</b>	850
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM3
<b>Core/ Clad Diam...</b>	50 µm / 125 µm
<b>Jacket Color</b>	Aqua
<b>Max Distance</b>	550 m
<b>Data Rate</b>	Gigabit
<b>Compatibility</b>	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600  MS120 / MS125 MS130 / MS210 MS225 / MS250 MS350 / MS355  MS390 / C9300  MS410 / MS425

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

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<b>Meraki Product ...</b>	MA-SFP-1GB-LX10
<b>Standard</b>	1000BASE-LX10
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	SMF
<b>Fiber Description</b>	OS1/OS2
<b>Core/Clad Diam...</b>	9 µm / 125 µm
<b>Jacket Color</b>	Yellow
<b>Max Distance</b>	10 km
<b>Data Rate</b>	Gigabit
<b>Compatibility</b>	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600  MS120 / MS125 MS130 / MS130R MS210 / MS225 MS250 / MS350 MS355  MS390 / C9300  MS410 / MS425

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<b>Meraki Product ...</b>	MA-SFP-1GB-LX10
<b>Standard</b>	1000BASE-LX10
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	with LC mode conditioning cable
<b>Core/Clad Diam...</b>	N/A
<b>Jacket Color</b>	Yellow / Orange
<b>Max Distance</b>	550 m
<b>Data Rate</b>	Gigabit
<b>Compatibility</b>	MX75 / MX84 MX85 / MX95 MX100 / MX105 MX250 / MX400 MX450 / MX600  MS120 / MS125 MS130 / MS130R MS210 / MS225 MS250 / MS350 MS355  MS390 / C9300

**Meraki 1 GbE SFP Copper Module**

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

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**Meraki 10G Base SR Multi-Mode**

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<b>Meraki Product ...</b>	MA-SFP-10GB-SR
<b>Standard</b>	10GBASE-SR
<b>Wavelength (nm)</b>	850
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM1
<b>Core/ Clad Diam...</b>	62.5 $\mu$ m / 125 $\mu$ m
<b>Jacket Color</b>	Orange
<b>Max Distance</b>	26 m
<b>Data Rate</b>	10 Gigabit
<b>Compatibility</b>	MX95 / MX105 MX250 / MX400 MX450 / MX600  MS125 / MS130-X MS225 / MS250 MS350 / MS355

MS390 / C9300

MS410 / MS425

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**Meraki Product ...** MA-SFP-10GB-SR

**Standard** 10GBASE-SR

**Wavelength (nm)** 850

**Fiber Type** MMF

**Fiber Description** OM2

**Core/Clad Diam...** 50 µm / 125 µm

**Jacket Color** Orange

**Max Distance** 82 m

**Data Rate** 10 Gigabit

**Compatibility** MX95 / MX105  
MX250 / MX400  
MX450 / MX600

MS125 / MS130-X

MS225 / MS250

MS350 / MS355

MS390 / C9300

MS410 / MS425

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**Meraki Product ...** MA-SFP-10GB-SR

**Standard** 10GBASE-SR

**Wavelength (nm)** 850

**Fiber Type** MMF

**Fiber Description** OM3

**Core/Clad Diam...** 50 µm / 125 µm

**Jacket Color** Aqua

**Max Distance** 300 m

**Data Rate** 10 Gigabit

**Compatibility** MX95 / MX105  
MX250 / MX400  
MX450 / MX600

MS125 / MS130-X

MS225 / MS250

MS350 / MS355

MS390 / C9300

MS410 / MS425

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**Meraki Product ...** MA-SFP-10GB-SR

**Standard** 10GBASE-SR

**Wavelength (nm)** 850

**Fiber Type** MMF

**Fiber Description** OM4

**Core/ Clad Diam...** 50 µm / 125 µm

**Jacket Color** Aqua

**Max Distance** 400 m

**Data Rate** 10 Gigabit

**Compatibility** MX95 / MX105  
MX250 / MX400  
MX450 / MX600

MS125 / MS130-X

MS225 / MS250 MS350 / MS355

MS390 / C9300

MS410 / MS425

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## Meraki 10G Base LR Single-Mode

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**Meraki Product ...** MA-SFP-10GB-LR

**Standard** 10GBASE-LR

**Wavelength (nm)** 1310

**Fiber Type** SMF

**Fiber Description** OS1/OS2

**Core/ Clad Diam...** 9 µm / 125 µm

**Jacket Color** Yellow

**Max Distance** 10 km

**Data Rate** 10 Gigabit

<b>Compatibility</b>	MX95 / MX105 MX250 / MX400 MX450 / MX600
	MS125 / MS130-X MS225 / MS250 MS350 / MS355
	MS390 / C9300
	MS410 / MS425

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## Meraki 10G Base LRM Multi-Mode

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<b>Meraki Product ...</b>	MA-SFP-10GB-LRM
<b>Standard</b>	10GBASE-LRM
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM1
<b>Core/Clad Diam...</b>	62.5 $\mu\text{m}$ / 125 $\mu\text{m}$
<b>Jacket Color</b>	Orange
<b>Max Distance</b>	220 m
<b>Data Rate</b>	10 Gigabit
<b>Compatibility</b>	MS225 / MS250 MS350 / MS355
	MS390 / C9300
	MS410 / MS425

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<b>Meraki Product ...</b>	MA-SFP-10GB-LRM
<b>Standard</b>	10GBASE-LRM
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM2
<b>Core/Clad Diam...</b>	50 $\mu\text{m}$ / 125 $\mu\text{m}$
<b>Jacket Color</b>	Orange
<b>Max Distance</b>	220 m *



<b>Data Rate</b>	10 Gigabit
<b>Compatibility</b>	MS225 / MS250 MS350 / MS355  MS390 / C9300  MS410 / MS425

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<b>Meraki Product ...</b>	MA-SFP-10GB-LRM
<b>Standard</b>	10GBASE-LRM
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM3
<b>Core/Clad Diam...</b>	50 µm / 125 µm
<b>Jacket Color</b>	Aqua
<b>Max Distance</b>	220 m
<b>Data Rate</b>	10 Gigabit
<b>Compatibility</b>	MS225 / MS250 MS350 / MS355  MS390 / C9300  MS410 / MS425

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

MS390 / C9300

MS410 / MS425

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\* Modal bandwidth at 500MHz/km

### Meraki 10G Base ER Module

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

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

### Meraki 10G Base ZR Module

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<b>Meraki Product ...</b>	MA-SFP-10GB-ZR
<b>Standard</b>	10GBASE-ZR
<b>Wavelength (nm)</b>	1550
<b>Fiber Type</b>	SMF
<b>Fiber Description</b>	OS1/OS2
<b>Core/ Clad Diam...</b>	9 µm / 125 µm
<b>Jacket Color</b>	Yellow

<b>Max Distance</b>	80 km
<b>Data Rate</b>	10 Gigabit
<b>Compatibility</b>	MX95 / MX105 MX250 / MX450  MS225 / MS250 MS350 / MS355 MS410 / MS425

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### Meraki SR4 QSFP 40G Transceiver

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

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### Meraki LR4 QSFP 40G Transceiver

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<b>Meraki Product ...</b>	MA-QSFP-40G-LR4
<b>Standard</b>	QSFP - LC
<b>Wavelength (nm)</b>	1310
<b>Fiber Type</b>	SMF
<b>Fiber Description</b>	OS1, OS2
<b>Core/ Clad Diam...</b>	G.652 / -

<b>Jacket Color</b>	Yellow
<b>Max Distance</b>	10 km
<b>Data Rate</b>	40 Gigabit
<b>Compatibility</b>	MS355 MS390 / C9300 MS425 / MS450

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### Meraki CSR4 QSFP 40G Transceiver

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

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### Meraki SR-BD QSFP 40G Transceiver

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<b>Meraki Product ...</b>	MA-QSFP-40G-SR-BD
<b>Standard</b>	QSFP - Duplex LC
<b>Wavelength (nm)</b>	832-918
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM2, OM3, OM4
<b>Core/ Clad Diam...</b>	50 µm / -

<b>Jacket Color</b>	Aqua
<b>Max Distance</b>	30 m, 100 m, 150 m
<b>Data Rate</b>	40 Gigabit
<b>Compatibility</b>	MS355 MS390 / C9300 MS425 / MS450

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### Meraki LR4 QSFP 100G Transceiver

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

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### Meraki SR4 QSFP 100G Transceiver

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<b>Meraki Product ...</b>	MA-QSFP-100G-SR4
<b>Standard</b>	100GBASE-SR4
<b>Wavelength (nm)</b>	850
<b>Fiber Type</b>	MMF
<b>Fiber Description</b>	OM3, OM4/OM5
<b>Core/ Clad Diam...</b>	50 $\mu$ m / -
<b>Jacket Color</b>	Aqua
<b>Max Distance</b>	70 m, 100 m
<b>Data Rate</b>	100 Gigabit

Compatibility MS450

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## Direct Attach

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**Meraki Product ...** MA-CBL-TA-1M

**Standard** 10GSFP+Cu

**Cable Length** 1 m

**Assembly Type** Passive Twinax

**Data Rate** 10 Gigabit

**Compatibility** MX95 / MX105  
MX250 / MX450

MS125 / MS130-X / MS225 / MS250  
MS350 / MS355 / MS390 / C9300  
MS410 / MS425

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**Meraki Product ...** MA-CBL-TA-3M

**Standard** 10GSFP+Cu

**Cable Length** 3 m

**Assembly Type** Passive Twinax

**Data Rate** 10 Gigabit

**Compatibility** MX95 / MX105  
MX250 / MX450

MS125 / MS130-X / MS225 / MS250  
MS350 / MS355 / MS390 / C9300  
MS410 / MS425

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## Stacking Cables

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**Meraki Product ...** MA-CBL-40G-50CM

**Standard** 40GQSFP+Cu

**Cable Length** 50 cm

**Assembly Type** QSFP+ passive Twinax cable assembly

**Data Rate** 40 Gigabit

**Compatibility** MS210 / MS225 / MS250  
MS350

MS410 / MS425

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<b>Meraki Product ...</b>	MA-CBL-40G-1M
<b>Standard</b>	40GQSFP+Cu
<b>Cable Length</b>	1 m
<b>Assembly Type</b>	QSFP+ passive Twinax cable assembly
<b>Data Rate</b>	40 Gigabit
<b>Compatibility</b>	MS210 / MS225 / MS250 MS350 MS410 / MS425

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<b>Meraki Product ...</b>	MA-CBL-40G-3M
<b>Standard</b>	40GQSFP+Cu
<b>Cable Length</b>	3 m
<b>Assembly Type</b>	QSFP+ passive Twinax cable assembly
<b>Data Rate</b>	40 Gigabit
<b>Compatibility</b>	MS210 / MS225 / MS250 MS350 MS410 / MS425

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<b>Meraki Product ...</b>	MA-CBL-100G-50CM
<b>Standard</b>	100GQSFP28
<b>Cable Length</b>	50 cm
<b>Assembly Type</b>	QSFP28 passive Twinax cable assembly
<b>Data Rate</b>	100 Gigabit
<b>Compatibility</b>	MS355 / MS450

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<b>Meraki Product ...</b>	MA-CBL-100G-1M
<b>Standard</b>	100GQSFP28
<b>Cable Length</b>	1 m
<b>Assembly Type</b>	QSFP28 passive Twinax cable assembly
<b>Data Rate</b>	100 Gigabit
<b>Compatibility</b>	MS355 / MS450

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<b>Meraki Product ...</b>	MA-CBL-100G-3M
<b>Standard</b>	100GQSFP28
<b>Cable Length</b>	3 m

<b>Assembly Type</b>	QSFP28 passive Twinax cable assembly
<b>Data Rate</b>	100 Gigabit
<b>Compatibility</b>	MS355 / MS450

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**Meraki Product ...** MA-CBL-120G-50CM

<b>Standard</b>	N/A
<b>Cable Length</b>	50 cm
<b>Assembly Type</b>	Cisco Meraki 120G stack cable
<b>Data Rate</b>	120 Gigabit
<b>Compatibility</b>	MS390 / C9300

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**Meraki Product ...** MA-CBL-120G-1M

<b>Standard</b>	N/A
<b>Cable Length</b>	1 m
<b>Assembly Type</b>	Cisco Meraki 120G stack cable
<b>Data Rate</b>	120 Gigabit
<b>Compatibility</b>	MS390 / C9300

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**Meraki Product ...** MA-CBL-120G-3M

<b>Standard</b>	N/A
<b>Cable Length</b>	3 m
<b>Assembly Type</b>	Cisco Meraki 120G stack cable
<b>Data Rate</b>	120 Gigabit
<b>Compatibility</b>	MS390 / C9300

## StackPower Cables

Meraki Product ID	Cable Length	Compatibility
MA-CBL-SPWR-30CM	30 cm	MS390 / C9300
MA-CBL-SPWR-150CM	1.5 m	MS390 / C9300

## Uplink Modules



Meraki Product ID	Cable Length	Compatibility
MA-MOD-8x10G	8-port 1/10G SFP+ Uplink module	MS390 / C9300
MA-MOD-4x10G	4-port 1/10G SFP+ Uplink module	MS390 / C9300
MA-MOD-2x40G	2-port 40G QSFP+ Uplink module	MS390 / C9300

Note: The **MA-MOD-4x10G** for the MS390 / C9300 is end of sale.

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All models of the Cisco Meraki MS access switches have either SFP / SFP+ interfaces for use with fiber, copper, or Twinax cables. The MS22 and MS220 s...

#### [MS390 Series Installation Guide](#)

#### [Catalyst 9300-M Series Installation Guide](#)

#### [Switch Stacks](#)

Meraki switches allow for physical stacking on select switch models so you can easily manage all of your switches and get physical redundancy in the d...

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