



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.

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 | Co |
|-------------------|-------------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|----------------------------|
| MA-SFP-1GB-SX | 1000BASE-SX | 850 | MMF | OM1 | 62.5 μm / 125 μm | Orange | 220 m | Gigabit | MX MX MX MX MS |

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Color |
|-------------------|-------------|-----------------|------------|-------------------|--------------------------|--------------|--------------|-----------|-------|
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| MA-SFP-1GB-SX | 1000BASE-SX | 850 | MMF | OM2 | 50 μ m / 125 μ m | Orange | 550 m | Gigabit | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| MA-SFP-1GB-SX | 1000BASE-SX | 850 | MMF | OM3 | 50 μ m / 125 μ m | Aqua | 550 m | Gigabit | MX |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Connector |
|-------------------|-------------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|-----------|
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| MA-SFP-1GB-SX | 1000BASE-SX | 850 | MMF | OM4 | 50 µm / 125 µm | Aqua | 1 km | Gigabit | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |

Meraki 1000Base LX10 Single-Mode

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Connector |
|-------------------|---------------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|-----------|
| MA-SFP-1GB-LX10 | 1000BASE-LX10 | 1310 | SMF | OS1/OS2 | 9 µm / 125 µm | Yellow | 10 km | Gigabit | MX |
| | | | | | | | | | MX |
| | | | | | | | | | / M |
| | | | | | | | | | MX |

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Com |
|-------------------|----------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|-----|
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | C93 |
| | | | | | | | | | MS |
| | | | | | | | | | MS |

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 | Com |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|--------------------|
| MA-SFP-1GB-TX | 1000BASE-T | N/A | N/A | N/A | N/A | N/A | 100 m | Gigabit | All M2 |
| | | | | | | | | | All MS except MS13 |
| | | | | | | | | | Catal |
| | | | | | | | | | Not s |
| | | | | | | | | | by MS |
| | | | | | | | | | C930 |

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 | Co |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|--|
| MA-SFP-10GB-SR | 10GBASE-SR | 850 | MMF | OM1 | 62.5 μm / 125 μm | Orange | 26 m | 10 Gigabit | MS MS MS MS MS MS MX MX MX |
| MA-SFP-10GB-SR | 10GBASE-SR | 850 | MMF | OM2 | 50 μm / 125 μm | Orange | 82 m | 10 Gigabit | MS MS MS MS MS MS MX MX MX |
| MA-SFP-10GB-SR | 10GBASE-SR | 850 | MMF | OM3 | 50 μm / 125 μm | Aqua | 300 m | 10 Gigabit | MS MS MS MS MS |

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Co |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|----------------------------------|
| MA-SFP-10GB-SR | 10GBASE-SR | 850 | MMF | OM4 | 50 μm / 125 μm | Aqua | 400 m | 10 Gigabit | MS MS MS MS MS MS |

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 | Co |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|----------------------------------|
| MA-SFP-10GB-LR | 10GBASE-LR | 1310 | SMF | OS1/OS2 | 9 μm / 125 μm | Yellow | 10 km | 10 Gigabit | MS MS MS MS MS MS |

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 | Co |
|-------------------|----------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|----|
| | | | | | | | | | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MS |
| | | | | | | | | | C9 |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |

* 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 | Co |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|-----|
| MA-SFP-10GB-ER ** | 10GBASE-ER | 1550 | SMF | OS1/OS2 | 9 μm / 125 μm | Yellow | 40 km | 10 Gigabit | MX |
| | | | | | | | | | MX |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | / M |
| | | | | | | | | | MS |
| | | | | | | | | | MS |
| | | | | | | | | | MS |

** 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 | Compliance |
|-------------------|------------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|--|
| MA-SFP-10GB-ZR | 10GBASE-ZR | 1550 | SMF | OS1/OS2 | 9 µm / 125 µm | Yellow | 80 km | 10 Gigabit | MS3, MS4, MS5, MS6, MS7, MS8, MS9, MS10, MS11, MS12, MS13, MS14, MS15, MS16, MS17, MS18, MS19, MS20, MS21, MS22, MS23, MS24, MS25, MS26, MS27, MS28, MS29, MS30, MS31, MS32, MS33, MS34, MS35, MS36, MS37, MS38, MS39, MS40, MS41, MS42, MS43, MS44, MS45, MS46, MS47, MS48, MS49, MS50, MS51, MS52, MS53, MS54, MS55, MS56, MS57, MS58, MS59, MS60, MS61, MS62, MS63, MS64, MS65, MS66, MS67, MS68, MS69, MS70, MS71, MS72, MS73, MS74, MS75, MS76, MS77, MS78, MS79, MS80, MS81, MS82, MS83, MS84, MS85, MS86, MS87, MS88, MS89, MS90, MS91, MS92, MS93, MS94, MS95, MS96, MS97, MS98, MS99, MS100 |

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 | Compliance |
|-------------------|--------------|-----------------|------------|-------------------|--------------------|--------------|--------------------|------------|--|
| MA-QSFP-40G-SR4 | QSFP - MPO12 | 850 | MMF | OM2, OM3, OM4 | 50 µm / - | Aqua | 30 m, 100 m, 150 m | 40 Gigabit | MS3, MS4, MS5, MS6, MS7, MS8, MS9, MS10, MS11, MS12, MS13, MS14, MS15, MS16, MS17, MS18, MS19, MS20, MS21, MS22, MS23, MS24, MS25, MS26, MS27, MS28, MS29, MS30, MS31, MS32, MS33, MS34, MS35, MS36, MS37, MS38, MS39, MS40, MS41, MS42, MS43, MS44, MS45, MS46, MS47, MS48, MS49, MS50, MS51, MS52, MS53, MS54, MS55, MS56, MS57, MS58, MS59, MS60, MS61, MS62, MS63, MS64, MS65, MS66, MS67, MS68, MS69, MS70, MS71, MS72, MS73, MS74, MS75, MS76, MS77, MS78, MS79, MS80, MS81, MS82, MS83, MS84, MS85, MS86, MS87, MS88, MS89, MS90, MS91, MS92, MS93, MS94, MS95, MS96, MS97, MS98, MS99, MS100 |

Meraki LR4 QSFP 40G Transceiver

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Compliance |
|-------------------|-----------|-----------------|------------|-------------------|--------------------|--------------|--------------|------------|--|
| MA-QSFP-40G-LR4 | QSFP - LC | 1310 | SMF | OS1, OS2 | G.652 / - | Yellow | 10 km | 40 Gigabit | MS3, MS4, MS5, MS6, MS7, MS8, MS9, MS10, MS11, MS12, MS13, MS14, MS15, MS16, MS17, MS18, MS19, MS20, MS21, MS22, MS23, MS24, MS25, MS26, MS27, MS28, MS29, MS30, MS31, MS32, MS33, MS34, MS35, MS36, MS37, MS38, MS39, MS40, MS41, MS42, MS43, MS44, MS45, MS46, MS47, MS48, MS49, MS50, MS51, MS52, MS53, MS54, MS55, MS56, MS57, MS58, MS59, MS60, MS61, MS62, MS63, MS64, MS65, MS66, MS67, MS68, MS69, MS70, MS71, MS72, MS73, MS74, MS75, MS76, MS77, MS78, MS79, MS80, MS81, MS82, MS83, MS84, MS85, MS86, MS87, MS88, MS89, MS90, MS91, MS92, MS93, MS94, MS95, MS96, MS97, MS98, MS99, MS100 |

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Com |
|-------------------|----------|-----------------|------------|-------------------|--------------------|--------------|--------------|-----------|-----|
| | | | | | | | | | C93 |
| | | | | | | | | | MS4 |
| | | | | | | | | | MS4 |

Meraki CSR4 QSFP 40G Transceiver

| Meraki Product ID | Standard | Wavelength (nm) | Fiber Type | Fiber Description | Core/Clad Diameter | Jacket Color | Max Distance | Data Rate | Com |
|-------------------|--------------|-----------------|------------|-------------------|--------------------|--------------|--------------------|------------|---------------------------------|
| MA-QSFP-40G-CSR4 | QSFP - MPO12 | 850 | MMF | OM2, OM3, OM4 | 50 µm / - | Aqua | 82 m, 300 m, 400 m | 40 Gigabit | MS3 MS3 C93 MS4 MS4 |

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 | Com |
|-------------------|------------------|-----------------|------------|-------------------|--------------------|--------------|--------------------|------------|---------------------------------|
| 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 | MS3 MS3 C93 MS4 MS4 |

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 | Cable Length |
|-------------------|--------------|------------------------|------------|-------------------|--------------------|--------------|--------------|-------------|--------------|
| MA-QSFP-100G-LR4 | 100GBASE-LR4 | 1295, 1300, 1304, 1309 | SMF | OS1, OS2 | G.652 / - | Yellow | 10 km | 100 Gigabit | 100 m |

Meraki SR4 QSFP 100G Transceiver

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

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 MX95 / MX105 MX250 / MX450 |
| MA-CBL-TA-3M | 10GSFP+Cu | 3 m | Passive Twinax | 10 Gigabit | 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 |
| 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 |

| Meraki Product ID | Standard | Cable Length | Assembly Type | Data Rate | Compatibility |
|---------------------|---|--------------|-------------------------------|--------------|----------------|
| 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 |

| Meraki Product ID | Cable Length | Compatibility |
|--------------------------|---------------------------------------|----------------------|
| 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.

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.