

Overview

Arista optical transceivers and cables offer deployment flexibility and cost optimized network connectivity. Arista transceivers and cables are all hot-swappable pluggable devices, compliant with industry standards, and certified on all Arista platforms unless otherwise stated. This document provides a technical reference guide on compatibility, interoperability, software support, and physical attributes of Arista transceivers and cables.

Arista EOS Support

All Arista products run on Arista EOS software. Tables 1-11 below provide the minimum version of EOS that is required for each of the transceivers and cables. Note that Arista switches have their own minimum EOS release requirement and Tables 1-11 should be read in conjunction with the EOS release notes.

Table 1: Minimum EOS Version for 800G OSFP Transceivers and Cables

Part Number	Description	Min. EOS Ver#
OSFP-800G-2FR4	2x 400GBASE-FR4 / 200GBASE-FR4 Dual-Rate Transceiver, dual LC connectors, up to 2km over dual duplex SMF. Interoperates with 2x 400G-FR4 OSFP/QSFP-DD, or 2x 200G-FR4 QSFPs	4.29.2
OSFP-800G-2LR4	2x 400GBASE-LR4 / 200GBASE-LR4 Dual-Rate Transceiver, dual LC connectors, up to 10km over dual duplex SMF. Interoperates with 2x 400G-LR4 OSFP/QSFP-DD, or 2x 200G-LR4 QSFPs.	4.29.2
OSFP-800G-2XDR4	2x 400GBASE-XDR4 Transceiver, Dual MPO-12 connector, 2km over parallel SMF. Interoperates with 2x 400G-XDR4 OSFP/QSFP-DD, and 8x 100G-FR QSFPs.	4.29.2
OSFP-800G-2PLR4	2x 400GBASE-PLR4 Transceiver, Dual MPO-12 connector, 10km over parallel SMF. Interoperates with 2x 400G-PLR4 OSFP/QSFP-DD, and 8x 100G-LR QSFPs.	4.29.2
OSFP-800G-2VSR4	2x 400GBASE-VSR4 OSFP Transceiver, dual MPO-12 APC connectors, up to 50m over parallel MMF. Interoperates with 2x 400G-VSR4 OSFP/QSFP-DD	4.32.2
OSFP-800G-VSR8	800GBASE-VSR8 OSFP Transceiver, MPO-16 APC connector, up to 50m over parallel MMF	4.35.0
OSFP-800G-XDR8	800GBASE-XDR8 OSFP Transceiver, MPO-16 APC connector, up to 2km over parallel SMF	4.35.0
LPO-800G-2DR4	2x 400GBASE-DR4 Linear Pluggable OSFP Transceiver, Dual MPO-12, up to 500m over parallel SMF	4.34.0*
LPO-800G-2FR4	2x 400GBASE-FR4 Linear Pluggable OSFP Transceiver, Dual LC, up to 2km over dual duplex SMF	4.35.2*
LPO-800G-DR8	800GBASE-DR8 Linear Pluggable OSFP Transceiver, MPO-16, up to 500m over parallel SMF	4.35.2*
A-O800-O800-xM	800G AOC, y meter (OSFP to OSFP,) (x=1,3,5,7,10,20,25,30)	4.31.2
A-O800-2Q400-xM	800G OSFP to 2x 400G QSFP112 Active Optical Cable, x meter (x=1,3,5,7,10,20,25,30,50)	4.32.2
C-O800-O800-1M	800G OSFP TO OSFP Twinax Copper Cable, 1 meter	4.29.2
C-O800-2Q400-xM	800GBASE-CR8 OSFP to 2 x 400GBASE-CR4 QSFP112 Copper Cable, (x=1,2,3,4)	4.31.2
E-O800-O800-xM	800G OSFP to 800G OSFP Active Electrical Cable, x meter (x=1,2,3,5)	4.36.0
E-O800-2Q400-xM	800GBASE-CR8 OSFP to 2 x 400GBASE-CR4 QSFP112 Active Electrical Cable, x meter (x=1,2,3)	4.36.0
OSFP-800G-ZRP	800G-ZR (OIF), 800G-ZR+ (OpenROADM), 400G-ZR+ (OpenROADM) C-Band OSFP Digital Coherent Tunable Transceiver	4.36.0**

* Supported on specific platforms stated in Table 2.1

** Refer to Table 2.2 for a list of the supported platforms

Table 1.1: Minimum EOS Version for 800G QSFP-DD Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
QDD-800G-2FR4	2x 400GBASE-FR4 / 200GBASE-FR4 Dual-Rate Transceiver, dual LC connectors, up to 2km over dual duplex SMF. Interoperates with 2x 400G-FR4 OSFP/QSFP-DD, or 2x 200G-FR4 QSFPs	4.29.2
QDD-800G-2LR4	2x 400GBASE-LR4 / 200GBASE-LR4 Dual-Rate Transceiver, dual LC connectors, up to 10km over dual duplex SMF. Interoperates with 2x 400G-LR4 OSFP/QSFP-DD, or 2x 200G-LR4 QSFPs.	4.29.2
QDD-800G-2XDR4	2x 400GBASE-XDR4 Transceiver, Dual MPO-12 connector, 2km over parallel SMF. Interoperates with 2x 400G-XDR4 OSFP/QSFP-DD, and 8x 100G-FR QSFPs.	4.29.2
QDD-800G-2PLR4	2x 400GBASE-PLR4 Transceiver, Dual MPO-12 connector, 10km over parallel SMF. Interoperates with 2x 400G-PLR4 OSFP/QSFP-DD, and 8x 100G-LR QSFPs.	4.29.2
C-D800-D800-1M	800G QSFP-DD TO QSFP-DD Twinax Copper Cable, 1 meter	4.29.2
A-D800-D800-xM	800G QSFP-DD to QSFP-DD Active Optical Cable, (x=1,3,5,7,10,15,20,25,30)	4.31.2

Table 2.1: Platform support for LPO Optics

Platform Family	Platform SKU	Transceiver SKU	EOS Version	Comments
7060X6	7060X6-64PE(-B)	LPO-800G-2DR4	4.36.0	All the OSFP ports
		LPO-800G-DR8	4.36.0	
		LPO-800G-2FR4	4.36.0	
7800-R4	7800R4(C)(K)(M)-36PE-LC	LPO-800G-2DR4	4.36.0	All the OSFP ports
		LPO-800G-DR8	4.36.0	
		LPO-800G-2FR4	4.36.0	

Table 2.2: Platform support for 800G-ZR/ZR+ Optics

Platform Family	Platform SKU	Comments
7800-R4	7800R4(C)(K)(M)-36PE-LC	All the 36 OSFP ports, 35C ambient temperature
7280-R4	7280R4(K)-32PE-F	All the 32 OSFP ports, 35C ambient temperature
7060X6	7060X6-64PE(-B)	Config#1: 16 Ports - Top row: 1,5,9,13,17,21,25,29 and Bottom row: 4,8,12,16,20,24,28,32 support 800G-ZR+ modules. Other 48 ports can be used with Fully Retimed Optics. 30C ambient temperature. Config#2: 32 Ports - Top row 16 ports and Bottom row 16 ports support 800G-ZR+ modules. Middle two row ports can be used with LPO Optics. 30C ambient temperature

Table 3: Minimum EOS Version for 400G OSFP Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
CAB-O-O-400G-xM	400GBASE-CR8 OSFP to OSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-2Q-400G-xM	400GBASE-CR8 OSFP to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-2Q-200G-xM	200GBASE-CR8 OSFP to 2 x 100GBASE-CR4 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-4Q-400G-xM	400GBASE-CR8 OSFP to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-4Q-200G-xM	200GBASE-CR8 OSFP to 4 x 50GBASE-CR2 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-8S-400G-xM	400GBASE-CR8 OSFP-DD to 8 x 50GBASE-CR SFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-O-8S-200G-xM	200GBASE-CR8 OSFP to 8 x 25GBASE-CR SFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
H-O400-4Q100-xM*	400GBASE-CR8 OSFP to 4x 100GBASE-CR4 QSFP Twinax Active Copper Cable, x meter (x= 1,2,3,5)	4.25.2
AOC-O-O-400G-xM	400GbE OSFP to OSFP Active Optical Cable, x meter (x= 1,3,5,7,10,15,20,25,30)	4.23.0
A-O400-2Q200-xM	400GbE OSFP to 2x 200G QSFP56 Active Optical Cable, x meter (x= 1,3,5,7,10,15,20,25,30)	4.26.1
A-O400-Q400-xM	400GbE OSFP to QSFP112 Active Optical Cable, x meter (x=1,3,5,7,10,15,20,25,30,50)	4.32.1
OSFP-400G-SR8	400GBASE-SR8 OSFP Transceiver, up to 100m over parallel OM4 MMF	4.23.0
OSFP-400G-SR8-C	400GBASE-SR8 and 8x 50G-SR / 25G-SR OSFP transceiver, up to 100m over parallel OM4 MMF	4.28.1
OSFP-400G-SRBD	400GBASE-BIDI (400GBASE-SR4.2) OSFP Transceiver, up to 100m over parallel OM4 MMF	4.30.2
OSFP-400G-DR4	400GBASE-DR4 OSFP Transceiver, up to 500m over parallel SMF	4.23.2
OSFP-400G-XDR4	4x 100GBASE-FR (or 400G-XDR4) OSFP Transceiver, up to 2km over parallel SMF	4.24.0
OSFP-400G-XDR4-S	4x 100GBASE-FR (or 400G-XDR4) OSFP Transceiver with SN optical connectors, up to 2km over parallel SMF	4.24.0
OSFP-400G-PLR4	4x 100GBASE-LR (or 400G-PLR4) OSFP transceiver, up to 10km over parallel SMF	4.25.2
OSFP-400G-PLR4-S	4x 100GBASE-LR (or 400G-PLR4) OSFP transceiver with SN optical connectors, up to 10km over parallel SMF	4.25.2
OSFP-400G-FR4	400GBASE-FR4 OSFP Transceiver, up to 2km over duplex SMF	4.24.0
OSFP-400G-LR4	400GBASE-LR4 OSFP Transceiver, up to 10km over duplex SMF	4.25.2
OSFP-400G-2FR4	400GBASE-2FR4 OSFP Transceiver, up to 2km over 2 pairs of duplex SMF	4.23.0
OSFP-400G-VSR4	400GBASE-VSR4 Transceiver, MPO-12 APC connector, up to 50m over parallel OM4 MMF	4.35.0
OSFP-400G-ZR**	400GBASE-ZR, OpenZR+, -10dBm, OSFP Digital Coherent Tunable Transceiver, up to 120km over duplex SMF with amplification	4.26.0
OSFP-AMP-ZR	OSFP Optical amplifier line system for coherent ZR	4.26.0

* The Arista 400G OSFP to 4x QSFP100 active copper cables allow a 400G OSFP port (with 8x 50G PAM-4 electrical lanes) to connect to 4x QSFP100 ports (with 4x 25G NRZ electrical lanes per QSFP). A gearbox inside the QSFP end of the cable implements the 2x 50G PAM-4 to 4x 25G NRZ conversion.

** Supported on specific platforms defined in Table 4.1

Table 4: Minimum EOS Version for 400G QSFP-DD Optics and Cables

Part Number	Description	Min EOS Ver#
CAB-D-D-400G-xM	400GBASE-CR8 QSFP-DD to QSFP-DD Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-D-2Q-400G-xM	400GBASE-CR8 QSFP-DD to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-D-2Q-200G-xM	200GBASE-CR8 QSFP-DD to 2 x 100GBASE-CR4 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-D-4Q-400G-xM	400GBASE-CR8 QSFP-DD to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-D-4Q-200G-xM	200GBASE-CR8 QSFP-DD to 4 x 50GBASE-CR2 QSFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
CAB-D-8S-400G-xM	400GBASE-CR8 QSFP-DD to 8 x 50GBASE-CR SFP Twinax Copper Cable, x meter (x= 1,2)	4.23.0
CAB-D-8S-200G-xM	200GBASE-CR8 QSFP-DD to 8 x 25GBASE-CR SFP Twinax Copper Cable, x meter (x= 1,2,3)	4.23.0
H-D400-4Q100-xM ¹	400GBASE-CR8 QSFP-DD to 4x 100GBASE-CR4 QSFP Twinax Active Copper Cable, x meter (x= 1,2,3,5)	4.25.2
AOC-D-D-400G-xM	400GbE QSFP-DD to QSFP-DD Active Optical Cable, x meter (x= 1,3,5,7,10,15,20,25,30)	4.23.0
A-D400-2Q200-xM	400GbE QSFP-DD to 2x 200G QSFP56 Active Optical Cable, x meter (x= 1,3,5,7,10,15,20,25,30)	4.26.1
A-D400-4Q100-xM	400G QSFP-DD to 2x 200G QSFP28 Active Optical Cable, x meter (x=1,3,5,7,10,15,20,25,30)	4.36.1
A-D400-Q400-xM	400GbE QSFP-DD to QSFP112 Active Optical Cable, x meter (x=1,3,5,7,10,15,20,25,30,50)	4.32.1
QDD-400G-SR8	400GBASE-SR8 QSFP-DD Transceiver, up to 100m over parallel OM4 MMF	4.24.0
QDD-400G-SR8-C	400GBASE-SR8 and 8x 50G-SR / 25G-SR QSFP-DD transceiver, up to 100m over parallel OM4 MMF	4.28.1
QDD-400G-SRBD	400GBASE-BIDI (400GBASE-SR4.2) QSFP-DD Transceiver, up to 100m over parallel OM4 MMF	4.30.2
QDD-400G-VSR4	400GBASE-VSR4 QSFP-DD transceiver, MPO-12 APC connector, up to 50m over parallel OM4 MMF	4.31.1
QDD-400G-DR4	400GBASE-DR4 QSFP-DD Transceiver, up to 500m over parallel SMF	4.24.0
QDD-400G-XDR4	4x 100GBASE-LR (or 400G-XDR4) QSFP-DD transceiver, up to 2km over parallel SMF	4.24.0
QDD-400G-XDR4-S	4x 100GBASE-LR (or 400G-XDR4) QSFP-DD transceiver with SN connectors, up to 2km over parallel SMF	4.24.0
QDD-400G-XDR4-C	400GBASE-XDR4 QSFP-DD Transceiver, up to 2km over parallel SMF, Channelized variant with 2x 200G support	4.35.2
QDD-400G-PLR4	4x 100GBASE-LR (or 400G-PLR4) QSFP-DD transceiver, up to 10km over parallel SMF	4.25.2
QDD-400G-PLR4-S	4x 100GBASE-LR (or 400G-PLR4) QSFP-DD transceiver with SN connectors, up to 10km over parallel SMF	4.25.2
QDD-400G-FR4	400GBASE-FR4 QSFP-DD Transceiver, up to 2km over duplex SMF	4.24.0
QDD-400G-LR4	400GBASE-LR4 QSFP-DD Transceiver, up to 10km over duplex SMF	4.25.2
QDD-400G-LR8	400GBASE-LR8 QSFP-DD Transceiver, up to 10km over duplex SMF	4.25.0
QDD-400G-ER4	400GBASE-ER4-30 QSFP-DD Transceiver, up to 30km over duplex SMF	4.35.2
QDD-400G-ZR ²	400GBASE-ZR, OpenZR+, -10dBm, QSFP-DD Digital Coherent Tunable Transceiver, up to 120km over duplex SMF with amplification	4.26.0
QDD-400G-ZRP ³	400GBASE-ZR+, OpenZR+, > 0dBm, Digital Coherent Tunable Transceiver	4.29.1
QDD-400G-ZR-EE ²	400GBASE-ZR, -10dBm, QSFP-DD Digital Coherent Tunable Transceiver, up to 120km over duplex SMF with amplification, Energy Efficient	4.36.0

1. The Arista 400G QSFP-DD to 4x QSFP100 active copper cables allow a 400G QSFP port (with 8x 50G PAM-4 electrical lanes) to connect to 4x QSFP100 ports (with 4x 25G NRZ electrical lanes per QSFP). A gearbox inside the QSFP end of the cable implements the 2x 50G PAM-4 to 4x 25G NRZ conversion.

2. Supported on specific platforms defined in Table 4.1

3. Supported on specific platforms defined in Table 4.2

Table 4.1: Platform Support for 400G-ZR Transceiver Modules. All platforms assume Front-to Back airflow unless otherwise specified

Platform Family	Optical Transceiver SKU	Platform SKU	Comments
7800R3	OSFP-400G-ZR	7800R3-36P(M)-LC	Top row (ports 1, 3, 5, ..., 35)
		7800R3A(K)-36P(M)-LC	All 36 ports
	QDD-400G-ZR, QDD-400G-ZR-EE	7800R3(K)-36D(M)-LC	All 36 ports
		7800R3A(K)-36D(M)-LC	All 36 ports
7500R3	OSFP-400G-ZR	7500R3-24P-LC	All 24 ports, 35C max ambient temperature
7280R3	OSFP-400G-ZR	7280PR3(K)-24	Top row (ports 1, 3, 5, ..., 23), if bottom row (ports 2, 4, 6, ..., 24) populated with modules <= 12W power
		7280CR3(M)(K)-32P4(S)	All 4x 400G ports, front to back (-F) airflow only
	QDD-400G-ZR, QDD-400G-ZR-EE	7280DR3-24	Top row (ports 1, 3, 5, ..., 23), if bottom row (ports 2, 4, 6, ..., 24) populated with modules <= 12W power
		7280CR3(M)(K)-32D4(S)	All 4x 400G ports, front to back (-F) airflow only
		7280CR3(A)(K)-36S	2x 400G ports, 35C max ambient temperature
7280R3A	QDD-400G-ZR, QDD-400G-ZR-EE	7280DR3A(M)(K)-36	All 400G ports
		7280DR3A(M)(K)-54	Top row, provided all other ports populated with <12W
		7280CR3A(M)(K)-24D12	All 400G ports, front to back (-F) airflow only
		7280CR3A-32S	All 2x QDD Ports, 35C max, front to back (-F) airflow only
		7280CR3A(M)(K)-48D6	All 400G ports, front to back (-F) airflow only
7050X4	OSFP-400G-ZR	7050PX4-32	Top row (Ports 1, 3, 5, ..., 31), 35C max temp, front to back (-F) airflow only
	QDD-400G-ZR, QDD-400G-ZR-EE	7050DX4-32	
7050CX4	QDD-400G-ZR, QDD-400G-ZR-EE	7050CX4M-48D8	All 400G ports, front to back (-F) airflow only
7060X5	QDD-400G-ZR, QDD-400G-ZR-EE	7060DX5-64E	Top row, provided all other ports populated with <12W modules, 35C max temp, front to back (-F) airflow only
		7050DX5-64S	
7060X4	OSFP-400G-ZR	7060PX4-32	Top row, provided all other ports populated with <12W modules, 35C max temp, front to back (-F) airflow only
	QDD-400G-ZR, QDD-400G-ZR-EE	7060DX4-32	
7358 / 7368 / 7388/ 7289	OSFP-400G-ZR	7368-4P	All 4x 400G ports, front to back (-F) airflow only
	QDD-400G-ZR QDD-400G-ZR-EE	7368-4D	All 4x 400G ports, front to back (-F) airflow only, 35C max ambient temp
		7388-8D(R)	All 400G ports, front to back (-F) airflow only
7060X6	OSFP-400G-ZR	7060X6-64PE	All 64 OSFP Ports, 35C max, front to back (-F) airflow only
		7060X6-32PE	All 32 OSFP Ports, 35C max, front to back (-F) airflow only

Table 4.2: Platform Support for 400G-ZR+ Transceiver Modules. All platforms assume Front-to-Back airflow unless otherwise specified

Platform Family	Optical Transceiver SKU	Platform SKU	Comments
7800R3	QDD-400G-ZRP	7800R3(K)-36D(M)-LC	All 36 ports
		7800R3A(K)-36D(M)-LC	All 36 ports
7280R3	QDD-400G-ZRP	7280DR3-24	Ports 3, 7, 11, 16, 19, 23, and All remaining ports populated with modules <= 12W power
		7280CR3(M)(K)-32D4(S)	Top row 400G ports (Ports 33 and 35), front to back (-F) airflow only, 35C max temp
7280R3A	QDD-400G-ZRP	7280DR3A(M)(K)-36	All 400G ports
		7280DR3A(M)(K)-54	Top row, provided all other ports populated with modules <=12W power, 35C max temp
		7280CR3A(M)(K)-24D12	Top row 400G ports (ports 25, 27, 29, 31, 33, 35), provided all other ports populated with modules <=12W power, front to back (-F) airflow only
		7280CR3A(M)(K)-48D6	All 400G ports, front to back (-F) airflow only
7289	QDD-400G-ZRP	7368-4D	All 400G ports, front to back (-F) airflow only, 35C max ambient temperature

Table 4.3: Minimum EOS Version for 400G QSFP112 Transceivers

Part Number	Description	Minimum EOS Ver#
QSFP-400G-VSR4	400GBASE-VSR4 QSFP112 Transceiver, up to 50m over OM4 parallel multi-mode fiber	4.35.2

Table 5: Minimum EOS Version for 200G Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
C-Q200-Q200-yM	200GBASE-CR4 QSFP to QSFP Twinax Copper Cable (y = 1 to 3 meters)	4.26.1
C-Q200-2Q100-xM	200GBASE-CR4 QSFP to 2x 100GBASE-CR2 QSFP Twinax Copper Cable (y = 1 to 3 meters)	4.26.1
C-Q200-4S50-xM	200GbE QSFP200 to 4 x 50GbE SFP50 twinax copper cable (x=1,2,3 meters)	4.26.1
A-Q200-Q200-xM	200GbE QSFP200 to QSFP200 Active Optical Cable (x=1, 3, 5, 7, 10, 15, 20, 25, 30 meters)	4.26.1
QSFP-200G-SR4	200GBASE-SR4 QSFP Transceiver, up to 70m/100m over parallel OM3/OM4 MMF, 200G/100G dual rate	4.28.2
QSFP-200G-FR4	200GBASE-FR4 QSFP Transceiver, 2km over duplex single-mode fiber, 200G/100G dual rate	4.26.1
QDD-200G-2LR4	2 x 100GBASE-LR4 QSFP-DD Transceiver, with 2x CS duplex optical connectors, up to 10km over two pairs of duplex SMF	4.30.0
OSFP-200G-2LR4	2 x 100GBASE-LR4 OSFP Transceiver, with 2x LC duplex optical connectors, up to 10km over two pairs of duplex SMF	4.30.0
QDD-8X25-MR-SR-E	200G QSFP-DD Transceiver, Dual rate, low latency 8x 25G-SR / 8x 10G-SR with MPO-16 APC connector. Up to 400m at 10G and 30m at 25G	4.31.1
OSFP-8X25-MR-LR	200G OSFP Transceiver, Dual rate 8x 25GBASE-LR/10GBASE-LR with MPO-16 APC connector, Up to 2km Over Parallel SMF	4.35.0
QDD-8X25-MR-LR	8x 25GBASE-LR/10GBASE-LR QSFP-DD Transceiver with MPO-16 APC connector, up to 2km over parallel SMF	4.36.1

Table 6: Minimum EOS Version for 100G QSFP Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
CAB-Q-Q-100G-yM	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable (y = 0.5,1,1.5,2,2.5,5 meters)	4.15.2
CAB-Q-4S-100G-yM	100GBASE-CR4 QSFP to 4 x 25GBASE-CR SFP Twinax Copper Cable (y = 1,2,3,5 meters)	4.18.0
CAB-Q-2Q-100G-yM	100GBASE-CR4 QSFP to 2 x 50GBASE-CR2 QSFP Twinax Copper Cable (y = 1,2,3,5 meters)	4.22.1
AOC-Q-Q-100G-yM	QSFP to QSFP 100GbE Active Optical Cable (y = 1,3,5,7,10,15,20,25,30 meters)	4.15.2
QSFP-100G-SR4	100GBASE-SR4 QSFP transceiver, up to 70m over parallel OM3 or 100m over OM4 MMF	4.15.2
QSFP-100G-SR4-E	100GBASE-SR4-Enhanced QSFP100 transceiver, up to 50m over OM4 MMF with low latency (without FEC)	4.32.0
QSFP-100G-XSR4	100GBASE-XSR4 QSFP transceiver, up to 150m over parallel OM3 or 300m over OM4 MMF	4.21.0
QSFP-100G-SWDM4	100GBASE-SWDM4 QSFP transceiver, up to 70m over OM3 or 100m over OM4 duplex MMF	4.20.1
QSFP-100G-SRBD	100GBASE-BIDI QSFP transceiver, up to 70m/100m over OM3/OM4 duplex MMF	4.20.1
QSFP-100G-PSM4	100GBASE-PSM4 QSFP Optics Module, up to 500m over parallel SMF	4.15.3
QSFP-100G-PLRL4	100GBASE-PLRL4 QSFP Optics Module, up to 2km over parallel SMF	4.27.1.1
QSFP-100G-PLR4	100GBASE-PLR4 QSFP Optics Module, up to 10km over parallel SMF	4.27.1
QSFP-100G-CWDM4	100GBASE-CWDM4 QSFP Optics Module, up to 2km over duplex SMF	4.15.5
QSFP-100G-XCWDM4	100GBASE-XCWDM4 QSFP Optics Module, up to 10km over duplex SMF	4.24.2
QSFP-100G-LRL4	100GBASE-LRL4 QSFP Optics Module, up to 2km over duplex SMF	4.15.2
QSFP-100G-DR	100GBASE-DR QSFP Optics Module, up to 500m over duplex SMF	4.21.3
QSFP-100G-FR	100GBASE-FR QSFP Optics Module, up to 2km over duplex SMF	4.22.1
QSFP-100G-LR	100GBASE-LR QSFP Optics Module, up to 10km over duplex SMF	4.23.1
QSFP-100G-LR4	100GBASE-LR4 QSFP Optics Module, up to 10km over duplex SMF	4.15.2
QSFP-100G-ERL4 ¹	100GBASE-ERL4 QSFP Optics Module, up to 40km over duplex SMF	4.20.1
QSFP-100G-ZR4 ^{1,2}	100GBASE-ZR4 QSFP Optics Module, up to 80km over duplex SMF	4.26.2
QSFP-100G-ER	100GBASE-ER QSFP Optics Module, up to 40km over duplex SMF	4.29.0
QSFP-100G-SR1.2	100GBASE-SR1.2 QSFP transceiver with KP FEC, up to 70m over Duplex OM3 or 100m over OM4 MMF	4.31.0
C-Y100-Y100-xM	100GBASE-CR2 DSFP to DSFP Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-Y100-Q100-xM	100GBASE-CR2 DSFP to 100GBASE-CR2 DSFP Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-Y100-2S50-xM	100GBASE-CR2 DSFP to 2x 50GBASE-CR SFP Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-Z100-Z100-xM	100GBASE-CR2 SFP-DD TO SFP-DD Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-Z100-Q100-xM	100GBASE-CR2 SFP-DD TO 100GBASE-CR2 QSFP Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-Z100-2S50-xM	100GBASE-CR2 SFP-DD to 2x 50GBASE-CR SFP Twinax Copper Cable (x = 1,2,3 meters)	4.30.0
C-S50-S50-xM	50GBASE-CR SFP To SFP Twinax copper cable (x = 1,2,3 meters)	4.30.0
SFP-100M-FX	100BASE-FX SFP Transceiver, up to 2km over MMF	4.31.1

1. Proper optical attenuation is required for shorter links to protect the receiver from permanent damage

2. Supported on platforms listed in Table 6.1

Table 6.1: Platform Support for QSFP-100G-ZR4 Transceiver Modules

Platform Family	Platform SKU	Supported Ports & Comments
7020R	7020SR-32C2	Both 100G QSFP ports, front to rear (-F) airflow only
7280R	7280CR2(K)(A)-30	Max of 8 QSFP ports in the top row (odd ports) at a max ambient temperature of 35C
	7280SR2K-48C6	All 6 100G QSFP ports, front to rear (-F) airflow only at a max ambient temperature of 35C
7280R3	7280CR3(M)(K)-32D(P)4(S)	Ports 15 - 18, front to rear (-F) airflow only at a max ambient temperature of 35C
	7280SR3(E)(K)(M)-48YC8	All 8 100G QSFP ports, front to rear (-F) airflow only at a max ambient temperature of 35C
	7280SR3(E)-40YC6	All 6 100G QSFP ports
	7280CR3A-48D6	All 6 100G QSFP ports, front to rear (-F) airflow. Up to a max ambient of 35C with rear-to-front (-R) airflow.
	7280CR3(K)-36(S)(A)	All 100G QSFP ports, front to rear (-F) airflow only at a max ambient temperature of 33C
	7280CR3K-96	Top row 16 ports
7358	7358-16C	All 100G QSFP ports, front to rear (-F) only at a max ambient temperature of 35C
7500R2	7500R2-36CQ-LC	Up to 16 ports. All other ports populated with optics that draw <4.5W
7500R3	7500R3(K)-36CQ	All 100G QSFP ports when using R3 Fabric cards
7800R3	7800R3(K)-48CQ(M)-LC 7800R3-48CQ(M)2-LC	Ports 1, 3, 5, ..., 39. All other ports populated with optics that draw <4.5W
7050	7050SX3-48YC8(C)	All 100G QSFP ports, front to rear (-F) airflow only a max ambient temperature of 35C

Table 7: Minimum EOS Version for 50G SFP Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
SFP-50G-MR-SR	50G/25G BASE-SR SFP transceiver up to 100m over duplex OM4 MMF	4.31.0
SFP-50G-MR-LR	50G/25G BASE-LR SFP transceiver, up to 10km over duplex SMF	4.36.1

* Proper optical attenuation is required for shorter links to protect the receiver from permanent damage

Table 8: Minimum EOS Version for 40G QSFP+ Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
CAB-Q-S-yM	40GBASE-CR4 QSFP+ to 4 x SFP+ Twinax Copper Cable (y = 0.5 to 5 meter)	All supported EOS releases
CAB-Q-Q-yM	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable (y = 0.5 to 5 meters)	All supported EOS releases
AOC-Q-Q-40G-yM	QSFP+ to QSFP+ 40GbE Active Optical Cable (y = 3 to 100 meters)	4.13.0
QSFP-40G-SR4	40GBASE-SR4 QSFP+ Optic, up to 100m over OM3 MMF or 150m over OM4 MMF	All supported EOS releases
QSFP-40G-XSR4	40GBASE-XSR4 QSFP+ Optic, up to 300m over OM3 MMF or 400m over OM4 MMF	4.11.1
QSFP-40G-SRBD	40GBASE-BIDI Bidirectional QSFP+ Optic, up to 100m/150m over duplex OM3/OM4 MMF	4.15.2
QSFP-40G-SRBD-R	40GBASE-BIDI Receiver only QSFP+, up to 100m over duplex OM3 or 150m over duplex OM4 MMF	4.15.2
QSFP-40G-UNIV	40GBASE-UNIV QSFP+ Optic, up to 150m over duplex OM3/OM4 and 500m over duplex SMF	4.14.0
QSFP-40G-LRL4	40GBASE-LRL4 QSFP+ Optic, up to 1km over duplex SMF	4.13.3
QSFP-40G-LR4	40GBASE-LR4 QSFP+ Optic, up to 10km over duplex SMF	All supported EOS releases
QSFP-40G-PLRL4	40GBASE-PLRL4 QSFP+ Optic, up to 1km over parallel SMF (4x10G LR up to 1km)	4.13.0
QSFP-40G-PLR4	40GBASE-PLR4 QSFP+ Optic, up to 10km over parallel SMF (4x10G LR up to 10km)	4.13.0
QSFP-40G-ER4*	40GBASE-ER4 QSFP+ Optic, up to 40km over duplex SMF	4.14.5

Table 9: Minimum EOS Version for 25G SFP Transceivers

Part Number	Description	Minimum EOS Ver#
CAB-S-S-25G-yM	25GBASE-CR SFP Cable (y = 1 to 5 meters)	4.18.0
AOC-S-S-25G-yM	SFP to SFP 25GbE Active Optical Cable (y = 3 to 30 meters)	4.18.0
SFP-25G-SR	25GBASE-SR SFP Optics Module, up to 70m over OM3 MMF or 100m over OM4 MMF	4.18.0
SFP-25G-SR-E	25GBASE-SR-Enhanced SFP, up to 50m over OM3/OM4 MMF with low latency (without FEC)	4.29.0
SFP-25G-MR-SR	Dual rate (25G/10G)BASE-SR, up to 70m/100m over OM3/OM4 MMF at 25G and 300m/400m over OM3/OM4 MMF at 10G. Optical interop with 10G-SR when operated at 10G.	4.24.2
SFP-25G-MR-XSR	Dual rate 10/25GBASE-XSR Extended Reach SFP Optics Module, up to 200m over OM3 or 300m over OM4 MMF	4.24.2
SFP-25G-LR	25GBASE-LR SFP Optics Module, up to 10km over duplex SMF	4.18.0
SFP-25G-LR-E	25GBASE-LR-Enhanced SFP, up to 10km over SMF with low latency (without FEC)	4.29.0
SFP-25G-MR-LR	Dual rate 10/25GBASE-MR-LR SFP Optics Module, up to 10km over duplex SMF	4.24.2
SFP-25G-ER	25GBASE-ER SFP25 transceiver, up to 40km over single-mode fiber	4.31.2

* Proper optical attenuation is required for shorter links to protect the receiver from permanent damage

Table 10: Minimum EOS Version for 10G SFP+ and 1G SFP Transceivers and Cables

Part Number	Description	Minimum EOS Ver#
CAB-SFP-SFP-yM	10GBASE-CR SFP+ Cable (y = 0.5 to 5 meters)	All supported EOS releases
AOC-S-S-10G-yM	SFP+ to SFP+ 10GbE Active Optical Cable (y = 3 to 30 meters)	4.14.0
SFP-10G-T ¹	10GBASE-T Copper (RJ45) Transceiver, up to 30m over Cat6a cable	4.23.2
SFP-10G-T-RP	10GBASE-T Copper (RJ45) Transceiver, Reduced Power, up to 30m over Cat6a cable	4.32.1
SFP-10G-MRA-T ²	10G/1G/100M BASE-T Copper (RJ45) Rate Adapting Transceiver, up to 30m Cat6a cable	4.28.1
SFP-10G-SRL	10GBASE-SRL SFP+ Transceiver, up to 100m over OM3 MMF or 150m over OM4 MMF	All supported EOS releases
SFP-10G-SR	10GBASE-SR SFP+ Transceiver, up to 300m over OM3 MMF or 400m over OM4 MMF	All supported EOS releases
SFP-10G-LRL	10GBASE-LRL SFP+ Transceiver, up to 1km over duplex SMF	All supported EOS releases
SFP-10G-LR	10GBASE-LR SFP+ Transceiver, up to 10km over duplex SMF	All supported EOS releases
SFP-10G-ERLBD-U/D	10GBASE-ERLBD SFP+ Transceiver, uplink / downlink, up to 30km over single fiber SMF	4.21.3
SFP-10G-ERBD-U/D ³	10GBASE-ERBD SFP+ Transceiver, uplink / downlink, up to 40km over single fiber SMF	4.21.3
SFP-10G-ER ³	10GBASE-ER SFP+ Transceiver, up to 40km over duplex SMF	All supported EOS releases
SFP-10G-ZR ³	10GBASE-ZR SFP+ Transceiver, up to 80km over duplex SMF	All supported EOS releases
SFP-10G-DZ-T ³	10GBASE-DWDM Tunable SFP+ Optics Module, up to 80km over duplex SMF	4.15.2
SFP-10G-RA-1G-LX ⁴	1000BASE-LX (media interface) to 10G (host interface) rate adapting SFP Transceiver	4.29.1
SFP-10G-RA-1G-SX ⁴	1000BASE-SX (media interface) to 10G (host interface) rate adapting SFP Transceiver	4.29.1
SFP-1G-SX	1000BASE-SX SFP Transceiver	All supported EOS releases
SFP-1G-LX	1000BASE-LX SFP Transceiver	All supported EOS releases
SFP-1G-T	100/1000BASE-T SFP Copper (RJ45) Transceiver	All supported EOS releases
SFP-1G-LX-H	1000BASE-LX SFP Transceiver, up to 10km over SMF, extended temp	4.36.0
SFP-10G-SR-H	10GBASE-SR SFP+ (Short Reach), extended temp	4.36.0
SFP-10G-LR-H	10GBASE-LR SFP+, up to 10km over SMF, extended temp	4.36.0
SFP-10G-ER-H	10GBASE-ER SFP+, Extended Temp, up to 40km over SMF	4.36.0

1. SFP-10G-T is supported on all SFP25 ports, with any restrictions captured in table 11, and supported in select SFP+ ports listed in table 11
2. SFP-10G-MRA-T supported on specific platforms listed in table 11.1
3. Proper optical attenuation is required for shorter links to protect the receiver from permanent damage.
4. SFP-10G-RA-1G-SX/LX supported on specific platforms listed in table 11.2.

Table 11: Platform Support for SFP-10G-T Transceiver*

Platform Family	Platform(s)	Comments
Supported on all SFP25 ports, with any exceptions or restrictions captured below, and supported in select SFP+ ports, listed below.		
7050X Series	7050SX3-48YC8 & 7050SX3-48C8	Supported on all SFP+ ports (as well as SFP25 ports)
	7050CX3M-32S	Supported on all SFP+ ports
	7050SX3-96YC8	Supported on SFP25 ports 1-48 (top two rows), 50-106 (bottom row), with remaining SFP25 ports populated with 2W max non BASE-T modules. Supported on front-to-rear airflow (-F) models only.
7060X Series	7060SX2-48YC6	Supported on all SFP25 ports, front-to-rear airflow (-F) only
	7060CX2-32S	Supported on all SFP+ ports
7280R Series	7280SR2K-48C6	24x SFP25 ports and front-to-rear airflow (-F) only
7500R Series	7500R2AK-48YCQ	Supported on all SFP+ ports

Table 11.1: Platform Support for SFP-10G-MRA-T Transceiver Modules**

Platform Family	Platform SKU	Supported Ports & Comments	Minimum EOS Ver#
7500R3 Series	7500R3-48Y4D-LC	All SFP25 ports	4.28.1
7280R3 Series	7280SR3A(K)(M)-48YC8	All SFP25 ports, front-to-rear airflow (-F) only	4.32.1
	7280CR3A(K)(M)-32S	All QSFP Ports, using a QSFP to SFP+ adapter	4.32.1
	7280SR3-40YC6	All SFP25 ports	4.28.1
	7280CR3(M)(K)-32D4(S) and 7280CR3(M)(K)-32P4(S)	All QSFP ports, using a QSFP to SFP+ adapter	4.28.0
	7280DR3(K)-24	All QSFP-DD ports, using a QSFP to SFP+ adapter	4.28.0
	7280CR3-96	All QSFP ports, using a QSFP to SFP+ adapter	4.28.0
	7280CR3-36S	Ports 1-24, using a QSFP to SFP+ adapter	4.28.1
	7280CR3A(K)(M)-72	All QSFP ports using a QSFP to SFP+ adapter.	4.32.1
7280R Series	7280SR2(K)(A)-48C6	All SFP25 ports. For rear-to-front airflow (-R), max ambient limit of 35C	4.30.0
	7280SR3M-48YC8	All SFP25 ports	4.33.1
7368 Series	7368-16S	All SFP25 ports. For rear-to-front airflow (-R), max ambient limit of 35C	4.28.1
	7358-16C, 7368-16C	Using a QSFP to SFP+ adapter on ports that support 10G	4.28.1
7289 Series	7358-16C	Using a QSFP to SFP+ adapter on ports that support 10G	4.28.1
	7368-16S	All SFP25 ports. For rear-to-front airflow (-R), max ambient limit of 35C	4.28.1
7358X4 Series	7368-16S	All SFP25 ports. For rear-to-front airflow (-R), max ambient limit of 35C	4.28.1

* Note that the SFP-10G-T-RP has identical performance to the SFP-10G-T, but with a lower module power consumption of 1.5W, enabling support in all Arista SFP+ and SFP25 ports, unless otherwise specified.

** SFP-10G-MRA-T supports 5G and 2.5G, and the minimum EOS version is 4.34.2

Table 11.1: Platform Support for SFP-10G-MRA-T Transceiver Modules**

Platform Family	Platform SKU	Supported Ports & Comments	Minimum EOS Ver#
7050 Series	7050SX3-48(Y)C8	All SFP+ / SFP25 ports, front-to-rear airflow (-F) only	4.28.1
	7050SX3-48YC12	All SFP25 ports	4.29.2
	7050SX3-24YC4C-S	All SFP25 ports	4.33.1
	7050CX3-32S	All QSFP ports using a QSFP to SFP+ adapter. Supported in SFP+ ports for front-to-rear airflow (-F) only	4.29.2
	7050SX3-96YC8 and 7050SX3-48YC8	All QSFP ports using a QSFP to SFP+ adapter, and all SFP25 ports	4.29.2
	7050TX3-48C8	All QSFP ports, using a QSFP to SFP+ adapter	4.28.1
	7050SDX4-48D8	Supported on all SFP-DD ports	4.30.1
	7050SPX4-48D8	Supported on all DSFP slots	4.30.0
7800 Series	7800R3AK-36DM2-LC	All QSFP-DD ports, using a QSFP to SFP+ adapter	4.28.1
	7800R3(K)-72Y-LC	Ports 1-8, 41-72	4.28.1
	7800R3-48CQM2-LC	All QSFP ports using a QSFP to SFP+ adapter.	4.28.1
	7800R3-48CQMS-LC	All QSFP ports using a QSFP to SFP+ adapter.	4.28.1
7010 Series	7010TX-48	All SFP25 ports. For rear-to-front airflow (-R), max ambient limit of 35C.	4.32.0
AWE-7200R Series	AWE-7230R-4TX-4S-F	Ports 13-15	4.32.2
	AWE-7250R-16S-F	Ports 9-16	4.32.2
AWE-5000 Series	AWE-5310-F	Ports 13-15	4.32.2
	AWE-5510-F	Ports 9-16	4.32.2
CCS-720XP	720XP-48ZC2	All SFP25 ports	4.31.2
	720XP-24ZY4	All SFP25 ports	4.31.2
	720XP-48TXH-2C-S	All SFP25 ports	4.31.2
7060 Series	7060DX4-32	All QSFP-DD ports, using a QSFP to SFP+ adapter	4.33.2

** SFP-10G-MRA-T supports 5G and 2.5G, and the minimum EOS version is 4.34.2

Table 11.2: Platform Support for SFP-10G-RA-1G-LX and SFP-10G-RA-1G-SX Transceiver Modules

Platform Family	Platform(s)	Comments	Minimum EOS Ver#
7050X Series	7050SX3-48YC8 & 7050SX3-48C8	Supported on all SFP+ ports (as well as SFP25 ports)	4.29.1
	7050SX3-48YC12	Supported on all SFP25 ports	4.29.1
	7050SX3-96YC8	Supported on all SFP25 ports	4.29.2
	7050SX3-48YC8C	Supported on all SFP25 ports	4.30.1
	7050SX3-24YC4C-S-F	Supported on all SFP25 ports	4.33.1
	7050CX3-32S	All QSFP ports, using a QSFP to SFP+ adapter	4.29.2
	7050CX3-32C	All QSFP ports, using a QSFP to SFP+ adapter	4.31.1
	7050SDX4-48D8	Supported on all SFP-DD ports	4.30.2
	7050SPX4-48D8	Supported on all DSFP ports	4.30.0
	7050X4-48Y-4DF	Supported on all SFP25 ports	4.34.2
7280R Series	7280CR3(M)(K)-32D4(S) and 7280CR3(M)(K)-32P4(S)	All QSFP ports, using a QSFP to SFP+ adapter.	4.29.1
	7280CR3-96	All QSFP ports, using a QSFP to SFP+ adapter.	4.29.1
	7280CR3-36S	Ports 1-24	4.29.1
	7280DR3A(M)(K)-36	All QSFP-DD ports, using a QSFP to SFP+ adapter.	4.30.0
	7280SR3-48YC8	Supported on all SFP25 ports	4.29.1
	7280SR3-40YC6	Supported on SFP25 ports 1-36	4.29.1
	7280SR3A(K)(M)-48YC8	Supported on all SFP25 ports	4.32.1
	7280CR3A[K](M)-48D6	All QSFP ports, using a QSFP to SFP+ adapter.	4.31.1
	7280CR3A(K)(M)-32S	Supported on all SFP25 ports	4.32.1
	7280CR3A(K)(M)-72	Supported on all SFP25 ports	4.31.2
	7280SR3M-48YC8	Supported on all SFP25 ports	4.33.1
	7280SR2K-48C6	Supported on all SFP, SFP25 , front-to-rear airflow (-F) only	4.33.1
	7020SR-24C2	Supported on all SFP25 , front-to-rear airflow (-F) only	4.33.1
	7280SR2(A)-48YC6	Supported on all SFP25 , front-to-rear airflow (-F) only	4.33.1
7289 Series	7368-16S	Supported on all SFP25 ports	4.29.1
	7368-16C	Ports 2, 6, 19 and 14 using QSFP to SFP+ adapter	4.29.1
CCS-720 Series	720XP-48Y6	Supported on all SFP25 ports	4.31.1
	720DP-48ZS-2F	Supported on all SFP+ ports	4.31.1
	720XP-48ZC2-F	Supported on all SFP25 ports	4.31.1
	720DP-24ZS-2F	Supported on all SFP+ ports	4.30.1
	720XP-24ZY4	Supported on all SFP+ ports	4.31.2
7800 Series	7800R3K-72Y-LC	Supported on all SFP25 ports	4.29.1
	7800R3-48CQM2-LC, 7800R3-48CQMS-LC	All QSFP ports, using a QSFP to SFP+ adapter.	4.29.1
	7800R3AK-36DM2-LC	All QSFP-DD ports, using a QSFP to SFP+ adapter.	4.29.1
7000 Series	7010TX-48	Supported on all SFP+ ports	4.29.1
7500 Series	7500R3-48Y4D	Supported on all SFP25 ports.	4.29.1

Connector and Cable type

Tables 12-16 provides the physical attributes of Arista transceivers and cables for easy product identification and lists the correct cable and connector type for termination*.

Table 12: Physical attributes of 1/10/25G SFP Transceivers

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
SFP-1G-SX	Bail Latch	Duplex LC	MMF
SFP-1G-LX	Bail Latch	Duplex LC	MMF and SMF
SFP-1G-T	Bail Latch	RJ-45	Twisted pair, Category 5
CAB-SFP-SFP-xM	Pull Tab	Pre-terminated. Assembly includes both ends of transceivers and cable fused together	
AOC-S-S-10G-xM	Pull Tab		
SFP-10G-T	Bail Latch	RJ-45	Twisted pair, Category 6a
SFP-10G-SR / SRL	Bail Latch	Duplex LC	MMF
SFP-10G-ZR / ER / LR / LRL	Bail Latch	Duplex LC	SMF
SFP-10G-ERLBD-U SFP-10G-ERLBD-D	Bail Latch	Simplex LC	SMF
SFP-10G-ERBD-U SFP-10G-ERBD-D	Bail Latch	Simplex LC	SMF
SFP-10G-DZ-T	Bail Latch	Duplex LC	SMF
CAB-S-S-25G-yM	Pull Tab	Pre-terminated. Assembly includes both ends of transceivers and cable fused together	
AOC-S-S-25G-yM	Pull Tab		
SFP-25G-SR / MR-SR / MR-XSR	Bail Latch	Duplex LC	MMF
SFP-25G-LR / MR-LR	Bail Latch	Duplex LC	SMF

* Please refer to the Arista Transceivers datasheet for additional information on reach for each fiber/cable type (<http://www.arista.com/assets/data/pdf/Datasheets/Transceiver-Data-Sheet.pdf>)

Table 13: Physical attributes of 40G QSFP+ Transceivers and Cables

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
CAB-Q-S-xM	Pull Tab	N/A	N/A
CAB-Q-Q-xM	Pull Tab	N/A	N/A
AOC-Q-Q-40G-xM	Pull Tab	N/A	N/A
QSFP-40G-SR4 / XSR4	Pull Tab	MPO-12	MMF
QSFP-40G-SRBD	Pull Tab	Duplex LC	MMF
QSFP-40G-LR4 / LRL4	Pull Tab	Duplex LC	SMF
QSFP-40G-PLR4 / PLRL4	Pull Tab	MPO-12	SMF
QSFP-40G-UNIV	Pull Tab	Duplex LC	MMF and SMF
QSFP-40G-ER4	Pull Tab	Duplex LC	SMF

Table 14.0: Physical attributes of 100G QSFP Transceivers

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
CAB-Q-Q-100G-yM	Pull Tab	N/A	N/A
AOC-Q-Q-100G-xM	Pull Tab	N/A	N/A
QSFP-100G-SR4 / XSR4	Pull Tab	MPO-12	MMF
QSFP-100G-SWDM4 / SRBD	Pull Tab	Duplex LC	MMF
QSFP-100G-PSM4 / PLRL4/ PLR4	Pull Tab	MPO-12	SMF
QSFP-100G-CWDM4 / XCWDM4	Pull Tab	Duplex LC	SMF
QSFP-100G-LRL4 / LR4 / ERL4 / ZR4	Pull Tab	Duplex LC	SMF
QSFP-100G-DR / FR / LR	Pull Tab	Duplex LC	SMF
QSFP-100G-DZ2-xx	Pull Tab	Duplex LC	SMF

Table 14.1: Physical attributes of 200G QSFP, QSFP-DD and OSFP Transceivers

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
C-Q200-Q200-yM	Pull Tab	N/A	N/A
C-Q200-2Q100-xM	Pull Tab	N/A	N/A
OSFP-200G-2LR4	Pull Tab	2x Duplex LC	SMF
QDD-200G-2LR4	Pull Tab	2x CS Connector	SMF
QSFP-200G-FR4	Pull Tab	Duplex LC	SMF
QSFP-200G-SR4	Pull Tab	MPO-12 (UPC)	MMF
OSFP-8X25-MR-LR	Pull Tab	MPO-16 APC	SMF
QDD-8X25-MR-SR-E	Pull Tab	MPO-16 APC	MMF

Table 15: Physical attributes of 400G OSFP and QSFP-DD Transceivers and Cables

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
CAB-O-O-400G-xM	Pull Tab	N/A	N/A
CAB-O-2Q-400G-xM	Pull Tab	N/A	N/A
CAB-O-2Q-200G-xM	Pull Tab	N/A	N/A
CAB-O-4Q-400G-xM	Pull Tab	N/A	N/A
CAB-O-4Q-200G-xM	Pull Tab	N/A	N/A
CAB-O-8S-200G-xM	Pull Tab	N/A	N/A
H-O400-4Q100-xM	Pull Tab	N/A	N/A
AOC-O-O-400G-xM	Pull Tab	N/A	N/A
OSFP-400G-SR8	Pull Tab	MPO-16 (APC)	MMF
OSFP-400G-SRBD	Pull Tab	MPO-12	MMF
OSFP-400G-DR4	Pull Tab	MPO-12	SMF
OSFP-400G-XDR4	Pull Tab	MPO-12	SMF
OSFP-400G-XDR4-S	Pull Tab	4x duplex SN connectors (individually pluggable)	SMF
OSFP-400G-PLR4	Pull Tab	MPO-12	SMF
OSFP-400G-PLR4-S	Pull Tab	4x duplex SN connectors (individually pluggable)	SMF
OSFP-400G-FR4	Pull Tab	Duplex LC	SMF
OSFP-400G-PLR4	Pull Tab	Duplex LC	SMF
OSFP-400G-2FR4	Pull Tab	2x Duplex CS	SMF
QDD/ OSFP-400G-ZR	Pull Tab	Duplex LC	SMF
OSFP-AMP-ZR	Pull Tab	Duplex LC and Duplex CS	SMF
CAB-D-D-400G-xM	Pull Tab	N/A	N/A
CAB-D-2Q-400G-xM	Pull Tab	N/A	N/A
CAB-D-2Q-200G-xM	Pull Tab	N/A	N/A
CAB-D-4Q-400G-xM	Pull Tab	N/A	N/A
CAB-D-4Q-200G-xM	Pull Tab	N/A	N/A
CAB-D-8S-200G-xM	Pull Tab	N/A	N/A
H-D400-4Q100-xM	Pull Tab	N/A	N/A
QDD-400G-SR8	Pull Tab	MPO-16 (APC)	MMF
QDD-400G-SRBD	Pull Tab	MPO-12	MMF
QDD-400G-DR4	Pull Tab	MPO-12	SMF
QDD-400G-XDR4	Pull Tab	MPO-12	SMF
QDD-400G-XDR4-C	Pull Tab	MPO-12	SMF
QDD-400G-XDR4-S	Pull Tab	4x duplex SN connectors (individually pluggable)	SMF
QDD-400G-PLR4	Pull Tab	MPO-12	SMF
QDD-400G-PLR4-S	Pull Tab	4x duplex SN connectors (individually pluggable)	SMF
QDD-400G-FR4	Pull Tab	Duplex LC	SMF
QDD-400G-ZRP	Pull Tab	Duplex LC	SMF

Table 15: Physical attributes of 400G OSFP and QSFP-DD Transceivers and Cables

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
QDD-400G-LR4	Pull Tab	Duplex LC	SMF
QDD-400G-ER4	Pull Tab	Duplex LC	SMF

Table 16: Physical attributes of 800G OSFP and QSFP-DD Transceivers and Cables

Part Number	Bail Latch or Pull Tab	Termination/Connector Type	Fiber Type to be used
A-O800-O800-yM	Pull Tab	N/A	N/A
A-O800-2Q400-yM	Pull Tab	N/A	N/A
C-O800-O800-yM	Pull Tab	N/A	N/A
OSFP-800G-2FR4	Pull Tab	2x Duplex LC	SMF
OSFP-800G-2LR4	Pull Tab	2x Duplex LC	SMF
OSFP-800G-2XDR4	Pull Tab	2x MPO-12 APC	SMF
OSFP-800G-2PLR4	Pull Tab	2x MPO-12 APC	SMF
OSFP-800G-2VSR4	Pull Tab	2x MPO-12 APC	MMF
OSFP-800G-VSR8	Pull Tab	MPO-16 APC	MMF
OSFP-800G-XDR8	Pull Tab	MPO-16 APC	SMF
LPO-800G-2DR4	Pull Tab	2x MPO-12 APC	SMF
LPO-800G-DR8	Pull Tab	MPO-16 APC	SMF
LPO-800G-2FR4	Pull Tab	2x Duplex LC	SMF
C-D800-D800-yM	Pull Tab	N/A	N/A
QDD-800G-2FR4	Pull Tab	2x Duplex LC	SMF
QDD-800G-2LR4	Pull Tab	2x Duplex LC	SMF
QDD-800G-2XDR4	Pull Tab	2x MPO-12 APC	SMF
QDD-800G-2PLR4	Pull Tab	2x MPO-12 APC	SMF
QDD-800G-2VSR4	Pull Tab	2x MPO-12 APC	MMF

Direct attach copper cables

Twinax copper Direct attach cables (also known as DACs) offer the most cost effective connectivity solution for short distance intra-rack (server to switch) and inter-rack (switch to switch across adjacent racks) links. Tables 17-18 provides a summary of Arista's DAC cables and their attributes

Table 17: Attributes of copper direct attach cables

	10G SFP+ to SFP+	25G SFP to SFP	40G QSFP+ to QSFP+	100G QSFP to QSFP
Arista Part Number	CAB-SFP-SFP-yM	CAB-S-S-25G-yM	CAB-Q-Q-yM	CAB-Q-Q-100G-yM
Cable Type	Twinax	Twinax	Twinax	Twinax
Supported Standards	10GBASE-CR	25GBASE-CR	40GBASE-CR4	100GBASE-CR4
Available lengths (meters)	0.5, 1, 1.5, 2, 2.5, 3, 5	1, 2, 3, 5	0.5, 1, 2, 3, 5	0.5, 1, 1.5, 2, 2.4, 3, 5
Cable characteristic impedance	100 Ohm Differential	100 Ohm Differential	100 Ohm Differential	100 Ohm Differential
Bend Radius	0.5 to 3 meter: 25mm 5 meter: 30mm	1, 2, 3, 5 meter: 30mm	1, 2, 3 meter: 35mm 5 meter: 50mm	1, 2, 3 meter: 45mm 5 meter: 60mm

Table 18: Attributes of copper direct attach breakout cables

	40G QSFP+ to 4x10G SFP+ break-out cable	100G QSFP to 4x25G SFP break-out cable
Arista Part Number	CAB-Q-S-yM	CAB-Q-4S-100G-yM
Cable Type	Twinax	Twinax
Supported Standards	40GBASE-CR4, 10GBASE-CR	100GBASE-CR4, 25GBASE-CR
Available lengths (meters)	0.5, 1, 2, 3, 5	1, 2, 3, 5
Cable characteristic impedance	100 Ohm Differential	100 Ohm Differential
Bend Radius	40G QSFP+ Side 0.5, 1, 2, 3 meter: 35mm 5 meter: 50mm 10G SFP+ Side 0.5, 1, 2, 3 meter: 25mm 5 meter: 30mm	100G QSFP Side 1, 2 meter: 45 mm 3, 5 meter: 60mm 25G SFP Side 1, 2, 3, 5 meter: 30mm

Digital Optical Monitoring (DOM)

Arista EOS provides enhanced monitoring capabilities for continuous performance monitoring and troubleshooting of optical transceivers. Some of the key monitor parameters are Temperature Monitor, Voltage Monitor, Transmitter and Receive power and Transmitter Bias current. Unless otherwise stated, DOM capabilities are supported on all Arista AOCs and optical transceivers. The Arista 40G AOC cables, AOC-Q-Q-40G-xM, support all regular DOM features except for Tx optical power.

Interoperability

Arista transceivers and cables are based on industry standards and/or Multi-Source Agreements (MSA) and therefore interoperable with the relevant standards and MSA transceivers. Guidance on the interoperability of the Arista transceivers is detailed in Tables 19 - 24.

Table 19: 10G/40G Transceiver interoperability for multi-mode fiber

	SFP-10G-SRL	SFP-10G-SR	SFP-25G-MR-SR @10G	SFP-25G-MR-XSR @10G	QSFP-40G-SR4	QSFP-40G-XSR4	QSFP-40G-SRBD	QSFP-40G-UNIV
SFP-10G-SRL	100m (OM3) 150m (OM4)	100m (OM3) 150m (OM4)	100m (OM3) 150m (OM4)	100m (OM3)* 150m (OM4)*	100m (OM3) 150m (OM4)	100m (OM3)* 150m (OM4)*	N/A	N/A
SFP-10G-SR		300m (OM3) 400m (OM4)	300m (OM3) 400m (OM4)	300m (OM3)* 400m (OM4)*	100m (OM3) 150m (OM4)	300m (OM3)* 400m (OM4)*		
SFP-25G-MR-SR @ 10G			300m (OM3) 400m (OM4)	300m (OM3) 400m (OM4)	100m (OM3) 150m (OM4)	300m (OM3) 400m (OM4)		
SFP-25G-MR-XSR @10G				300m (OM3) 400m (OM4)	100m (OM3) 150m (OM4)	300m (OM3) 400m (OM4)		
QSFP-40G-SR4					100m (OM3) 150m (OM4)	100m (OM3) 150m (OM4)		
QSFP-40G-XSR4						300m (OM3) 400m (OM4)		
QSFP-40G-SRBD							100m (OM3) 150m (OM4)	150m (OM3) 150m (OM4)
QSFP+ UNIV	N/A							

Table 20: 10G/40G Transceiver interoperability for single-mode fiber

	SFP-10G-LRL	SFP-10G-LR	SFP-25-MR-LR @10G	QSFP-40G-PLRL4	QSFP-40G-PLR4	QSFP-40G-UNIV	QSFP-40G-LRL4	QSFP-40G-LR4
SFP-10G-LRL	1km	1km	1km*	1km	1km	N/A		
SFP-10G-LR		10km	10km*	1km	10km			
SFP-25-MR-LR @10G			10km*	1km*	10km*			
QSFP-40G-PLRL4				1km	1km			
QSFP-40G-PLR4					10km			
QSFP-40G-UNIV	N/A					500m	N/A	
QSFP-40G-LRL4						500m	1km	1km
QSFP-40G- LR4						500m		10km

* Optical attenuation may be required for short links. Refer to Optics Modules and Cables datasheet for optical specifications.

	SFP-25-SR	SFP-25G-MR-SR	SFP-25G-MR-XSR	QSFP-100G-SR4	QSFP-100G-XSR4	QSFP-100G-SWDM4	QSFP-100G-SRBD
SFP-25-SR	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	N/A	N/A
SFP-25G-MR-SR		70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)		
SFP-25G-MR-XSR			200m (OM3) 300m (OM4)	70m (OM3) 100m (OM4)	150m (OM3) 300m (OM4)		
QSFP-100G-SR4				70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)		
QSFP-100G-XSR4					150m (OM3) 300m (OM4)		
QSFP-100G-SWDM4						70m (OM3) 100m (OM4)	70m (OM3) 100m (OM4)
QSFP-100G-SRBD							

[illegible]

Table 23: 40G/100G/400G Transceiver interoperability for multi-mode fiber

	QSFP-40G-SR4	QSFP-40G-XSR4	QSFP-100G-SR4	QSFP-100G-XSR4	OSFP & QDD 400G-SR8
QSFP-40G-SR4	100m (OM3) 150m (OM4)	100m (OM3) 150m (OM4)	N/A	N/A	70m (OM3)* 100m (OM4)*
QSFP-40G-XSR4		400m (OM4)	N/A	N/A	70m (OM3)* 100m (OM4)*
QSFP-100G-SR4			100m (OM4)	100m (OM4)	70m (OM3)* 100m (OM4)*
QSFP-100G-XSR4				300m (OM4)	70m (OM3)* 100m (OM4)*
OSFP & QDD 400G-SR8					70m (OM3)* 100m (OM4)*

Table 24: 100G/400G Transceiver interoperability for Single-mode fiber

	100G-DR	100G-FR	100G-LR	100G-CWDM4	100G-XCWDM4	400G-DR4	400G-XDR4	400G-PLR4	400G-FR4	400G-LR4	400G-2FR4
100G-DR	500m	500m	500m	N/A	N/A	500m	500m	500m	N/A	N/A	N/A
100G-FR		2km	2km	N/A	N/A	500m	2km	2km	N/A	N/A	N/A
100G-LR			10km	N/A	N/A	500m	2km	10km	N/A	N/A	N/A
100G-CWDM4				2km	2km	N/A	N/A	N/A	N/A	N/A	2km*
100G-XCWDM4					10km	N/A	N/A	N/A	N/A	N/A	2km*
400G-DR4						500m	500m	500m	N/A	N/A	N/A
400G-XDR4							2km	2km	N/A	N/A	N/A
400G-PLR4								10km	N/A	N/A	N/A
400G-FR4									2km	2km*	N/A
400G-LR4										10km	N/A
400G-2FR4											2km

* Optical attenuation may be required for short links. Refer to Optics Modules and Cables datasheet for optical specifications.

Laser Eye Safety

Arista optical transceivers are classified as CLASS 1 laser eye safety compliant per IEC 60825-1: 2007. Class 1 laser products emit invisible laser radiation; it is strongly recommended not to stare into beams or view directly with optical instruments.

Fiber Cleaning

Contaminated fiber optic connectors often lead to degraded performance and costly, but preventable, failures. Industry studies show that the number one cause of link failure is a contaminated or dirty connector or fiber. To ensure proper performance and reliability care must be taken with the installation and maintenance of removable fiber connectors. For recommendations and best practices on fiber connection cleaning, please refer to the Arista Application Note at <https://www.arista.com/assets/data/pdf/Fiber-Cleaning-App-Note.pdf>

Installing and Removing Transceivers and Cables

This section describes how to install and remove optical transceivers and cables. An ESD-preventive wrist or ankle strap should be used before installing or removing transceivers and cables to protect the device from damage.

Installation procedure for Transceivers with Bail Latch

- Step 1: Close the bail latch before inserting the transceiver
- Step 2: Line-up the transceiver with the switch port and slide it into the port
- Step 3: Firmly push the transceiver to ensure it is completely seated and secured in the receptacle on the switch
- Step 4: Connect clean fiber cables to the transceiver. Alternatively cover the optical port with clean dust covers

Removal procedure for Transceivers with Bail Latch

- Step 1: Disconnect all interface cables from the transceiver
- Step 2: Open the bail latch on the transceiver with index finger
- Step 3: Grasp the transceiver between thumb and index finger and carefully remove it from the switch port

Installation procedure for Transceivers with Pull-tab

- Step 1: Line-up the transceiver with the switch port and slide it into the port
- Step 2: Firmly push the transceiver to ensure it is completely seated and secured in the receptacle on the switch
- Step 3: Connect clean fiber cables to the transceiver. Alternatively cover the optical port with clean dust covers

Removal procedure for Transceivers with Pull-tab

- Step 1: Disconnect all interface cables from the transceiver
- Step 2: Grasp the Pull-tab with thumb and index finger and gently pull to remove the transceiver

Warranty

The Arista pluggables and cables include a one-year limited hardware warranty, which covers parts, repair, or replacement with a 10 business day turn-around after the unit is received.

Service and Support

Support services including next business day and 4-hour advance hardware replacement are available. For service depot locations, please see: <http://www.arista.com/en/service>

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