

Key Features

- Deployment flexibility of 400GbE, 100GbE, 40GbE, 25GbE, 10GbE or 1GbE modules.
- Hot swappable to maximize uptime and simplify serviceability
- Data rates from 1GbE to 25GbE supported using the SFP form factor, for the smallest, and lowest power solutions
- SFP+ Optical interoperability with 10GbE XFP, X2 and XENPAK pluggable form factors
- QSFP+ Optical interoperability with 40GbE CFP and QSFP+ pluggable form factors
- QSFP+ Universal transceiver for 40G operations over duplex multi-mode and single-mode fiber. Interoperable with IEEE 40GbE LR4 and LRL4 for easier migrations from 10G to 40G and to single mode fiber
- 100G QSFP pluggable transceivers and cables for high density 100G deployments. Optical interoperability with 100GbE CFP, CFP2 and CPAK
- Parallel QSFP transceivers for both multi-mode and single-mode enable flexible 4x25G and 4x10G options for gradual migration from 10G to 40G and 25G to 100G connectivity
- A Broad range of 400GE optics, AOCs and cables, in both OSFP and QSFP-DD form-factors
- Flexibility of media and interface choice on a port-by-port basis
- Support for tunable 10Gigabit DWDM for DCI and long-haul optical fiber networks

Overview

Arista's Optical Modules and Cable portfolio offer a wide variety of high-density and low-power 400G, 100G, 40G, 25G, 10G, 1G, and 100M Ethernet connectivity options over fiber or copper.

To accommodate an ever increasing spectrum of applications, Arista offers a wide choice of OSFP, QSFP-DD, QSFP and SFP transceivers that comply with industry open standards, offering a broad range of connectivity options. Each module is optimized for different media and reach (ranging from 0.5 meters to 80 kilometers).

All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper Cables (DACs), Active Optical Cables (AOCs), multi-mode fiber and single-mode fiber transceivers.



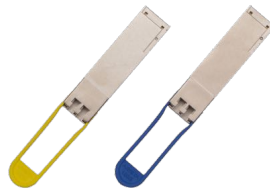
400GBASE-DR4, SR8, 2FR4 OSFP



400GBASE-AOC



400GBASE-CR4 Copper Cable



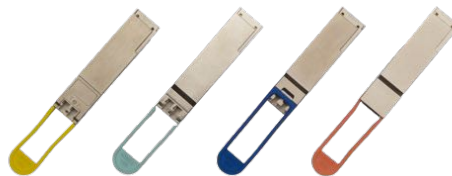
100GBASE-LRL4 and LR4 QSFP



100GBASE-CR4 Copper Cable



40GBASE-CR4 to 4x 10GBASE-CR Copper Cable



40GBASE-LRL4, UNIV, LR4 and XSR4 QSFP+



25GBASE-CR, AOC, SR and LR



10GBASE-SR and LR SFP+ 1000BASE-T SFP



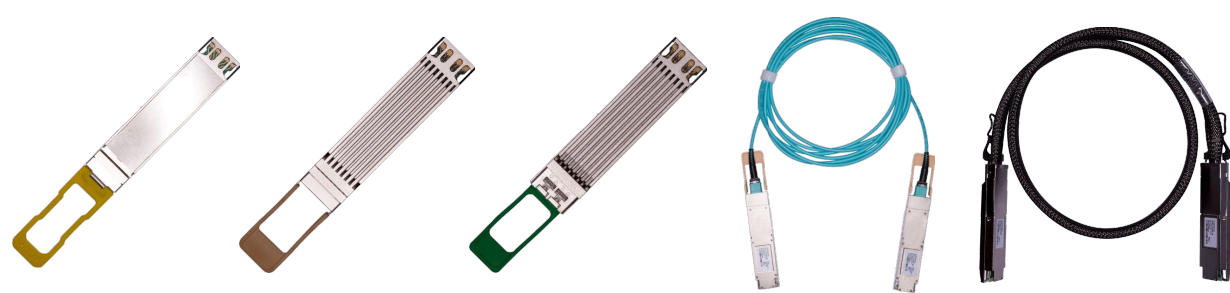
10GBASE-CR Copper Cable

400 Gigabit Ethernet OSFP Options

PHY Type	Reach
400GBASE-CR8	Twin-ax copper cables with link lengths of 1m, 2m and 3m
400GBASE-AOC	Active Optical Cable with link lengths of 1m to 30m pre-terminated
400GBASE-SR8	Up to 100m over parallel OM4 multi-mode fiber
400GBASE-DR4	Up to 500m over parallel single-mode fiber (Optical interoperability with 4 x 100GBASE-DR up to 500m)
400GBASE-XDR4	Up to 2km over parallel single-mode fiber (Optical interoperability with 4 x 100GBASE-FR up to 2km)
400GBASE-FR4	Up to 2km over single-mode fiber
400GBASE-2FR4	Up to 2km over 2 pairs of single-mode fiber (Optical interoperability with 2 x 200GBASE-FR4 up to 2km)

400 Gigabit Ethernet QSFP-DD Options

PHY Type	Reach
400GBASE-CR8	Twin-ax copper cables with link lengths of 1m, 2m and 2.5m
400GBASE-AOC	Active Optical Cable with link lengths of 1m to 30m pre-terminated
400GBASE-DR4	Up to 500m over parallel single-mode fiber (Optical interoperability with 4 x 100GBASE-DR up to 500m)
400GBASE-XDR4	Up to 2km over parallel single-mode fiber (Optical interoperability with 4 x 100GBASE-FR up to 2km)
400GBASE-FR4	Up to 2km over single-mode fiber



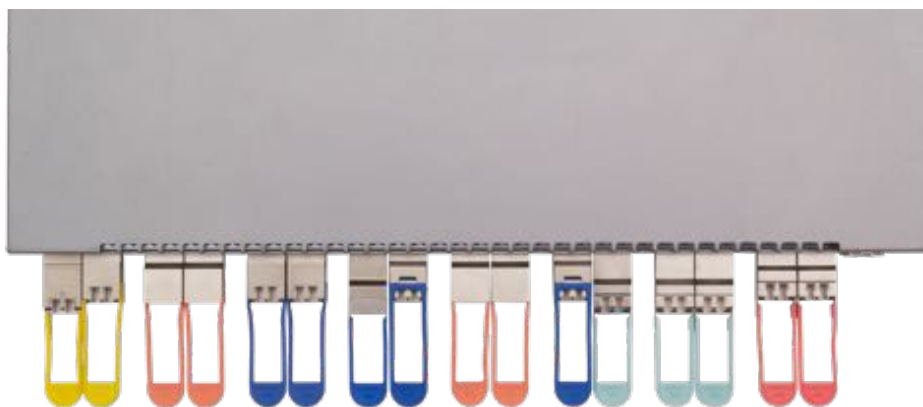
Broad portfolio of Arista 400G OSFP and QSFP-DD optics, AOCs and copper DACs

100 Gigabit Ethernet QSFP Options

PHY Type	Reach
100GBASE-CR4	Twin-ax copper cables with link lengths of 1m, 2m, 3m and 5m
100GBASE-AOC	Active Optical Cable with link lengths of 3m to 30m pre-terminated
100GBASE-SR4	Up to 70m over parallel OM3 multi-mode fiber or 100m over parallel OM4 multi-mode fiber
100GBASE-XSR4	Up to 150m over parallel OM3 multi-mode fiber or 300m over parallel OM4 multi-mode fiber
100GBASE-SWDM4	Up to 70m over duplex OM3 multi-mode fiber or 100m over duplex OM4 multi-mode fiber
100GBASE-BIDI	Up to 70m over duplex OM3 multi-mode fiber or 100m over duplex OM4 multi-mode fiber
100GBASE-PSM4	Up to 500m over parallel single-mode fiber, 100G/40G Dual rate
100GBASE-LR4	Up to 10km over single-mode fiber (Optical interoperability with 100GBASE-LRL4 up to 2km)
100GBASE-LRL4	Up to 2km over single-mode fiber (Optical interoperability with 100GBASE-LR4 up to 2km)
100GBASE-CWDM4	Up to 2km over single-mode fiber, 100G/40G Dual rate
100GBASE-ERL4	Up to 40km over single-mode fiber (Optical interoperable with IEEE 100GBASE-ER4 up to 30km)

40 Gigabit Ethernet QSFP+ Options

PHY Type	Reach
40GBASE-CR4	Twin-ax copper cables with link lengths of 0.5m, 1m, 2m, 3m and 5m
40GBASE-AOC	Active Optical Cable with link lengths of 3m to 100m pre-terminated
40GBASE-SR4	Up to 100m over parallel OM3 multi-mode fiber or 150m over parallel OM4 multi-mode fiber
40GBASE-XSR4	Up to 300m over parallel OM3 multi-mode fiber or 400m over parallel OM4 multi-mode fiber
40GBASE-BIDI	Up to 100m over duplex OM3 multi-mode fiber or 150m over duplex OM4 multi-mode fiber
40GBASE-UNIV	Up to 150m over duplex OM3/OM4 multi-mode fiber or 500m over duplex single-mode fiber
40GBASE-LR4	Up to 10km over duplex single-mode fiber (Optical interoperability with 40GBASE-LRL4 up to 1km)
40GBASE-LRL4	Up to 1km over duplex single-mode fiber (Optical interoperability with 40GBASE-LR4 up to 1km)
40GBASE-PLRL4	Up to 1km over parallel single-mode fiber (Optical interoperability with 4x10G LR/LRL up to 1km)
40GBASE-PLR4	Up to 10km over parallel single-mode fiber (Optical interoperability with 4x10G LR up to 10km and LRL up to 1km)
40GBASE-ER4	Up to 40km over duplex single-mode fiber



Broad portfolio of Arista QSFP Transceivers

25 Gigabit Ethernet SFP Options

PHY Type	Reach
25GBASE-CR	Twin-ax copper cables with link lengths of 1m, 2m, 3m and 5m
25GBASE-CR (QSFP)	Pre-terminated QSFP to 4 x SFP twin-ax copper cables with link lengths of 1m, 2m, 3m and 5m
25GBASE-AOC	Active Optical Cable with link lengths of 3m, 5m, 7m, 10m, 15m, 20m, 25m and 30m
25GBASE-SR	Up to 70m link length with OM3 and 100m over OM4 duplex multimode fiber
25GBASE-LR	Up to 10km link length over duplex single-mode fiber (SMF, G.652)

10 Gigabit Ethernet SFP+ Options

PHY Type	Reach
10GBASE-CR	Twin-ax copper cables with link lengths of 0.5m, 1m, 1.5m, 2m, 2.5m, 3m and 5m
10GBASE-CR (QSFP+)	Pre-terminated QSFP+ to 4 x SFP+ twin-ax copper cables with link lengths of 0.5m, 1m, 2m, 3m and 5m
10GBASE-AOC	Active Optical Cable with link lengths of 3m, 5m, 7m, 10m, 15m, 20m, 25m and 30m
10GBASE-SR	Up to 300m link length with 2000 MHz*km duplex MMF (OM3). Optical interoperability with 10GBASE-SRL
10GBASE-SRL	Up to 100m link length with 2000 MHz*km duplex MMF (OM3). Optical interoperability with 10GBASE-SR
10GBASE-LR	Up to 10km link length over duplex single-mode fiber. Optical interoperability with 10GBASE-LRL
10GBASE-LRL	Up to 1km link length over duplex single-mode fiber. Optical interoperability with 10GBASE-LR
10GBASE-ER	Up to 40km link length over duplex single-mode fiber
10GBASE-ERLBD	Up to 30km link length over a single strand of single-mode fiber
10GBASE-ERBD	Up to 40km link length over a single strand of single-mode fiber
10GBASE-ZR	Up to 80km link length over duplex single-mode fiber
10GBASE-DWDM	Up to 80km link length DWDM over duplex single-mode fiber

Gigabit Ethernet SFP Options

PHY Type	Reach
1000BASE-SX	Up to 550m link length with 500 MHz km MMF (OM2)
1000BASE-LX	Up to 10km link length over duplex SMF and up to 550m on MMF*
1000BASE-T	Up to 100m link length over Category 5 copper cables, supporting both 100 Megabit and 1 Gigabit Ethernet

* When 1000BASE-LX is used with FDDI grade OM1 or OM2 multi-mode fiber, a mode conditioning patch cord must be used at the transmitter to ensure specifications are met. Mode conditioning patch cord is not required for OM3 fiber.

Physical Characteristics (HxWxD)

- SFP: 8.55 x 13.7 x 56.5mm
- QSFP: 13.5 x 18.4 x 72.4mm
- QSFP-DD, Type 1: 13.5 x 18.4 x 78.3mm
- QSFP-DD, Type 2: 13.5 x 18.4 x 93.3mm
- OSFP: 13.0 x 22.6 x 100.4mm

Environmental Characteristics

- Operating case temperature: 0 to 70C
- Storage Temperature: -40 to 85C
- Relative Humidity: 5 to 95%
- Operating Altitude: 0-10,000 ft

Power Requirements (Maximum)

- Arista SFP modules (except for 10G ER, ZR, DWDM and 25G SR, LR): 1 W
- Arista QSFP+ 40GBASE-SR4, XSR4; SFP+ ERLBD, ERBD, ER, ZR, DWDM and 25G SR, LR: 1.5 W
- Arista 40GBASE-UNIV, BIDI, LRL4, LR4, PLR4, PLRL4 and ER4 modules: 3.5 W
- Arista 100G QSFP SR4, XSR4, AOC, SWDM4, BIDI, PSM4, CWDM4, BIDI: 3.5W
- Arista 100G QSFP LRL4: 4.0W
- Arista 100G QSFP LR4, ERL4: 4.5W
- Arista 400G OSFP SR8: 10W
- Arista 400G OSFP 2FR4: 12W
- Arista 400G OSFP & QSFP-DD DR4, FR4:12W

Safety

- Laser Class 1 21CFR-1040.10 LN#50
- Laser Class 1 IEC60825-1

IEEE Compliance

- 802.3 IEEE Ethernet
- 802.3cd 100GBASE-DR and 400GBASE-DR4
- 802.3bs 400GBASE-2FR4 (200GBASE-FR4)
- 802.3cm 400GBASE-SR8

Standards Compliance

- GR-20-CORE
- GR-326-CORE
- GR-1435-CORE
- QSFP+/QSFP28: SFF-8449 and 8636
- SFP+: SFF-8431, 8461 and 8472
- 100G CWDM4 MSA
- 100G PSM4 MSA
- 100G SWDM4 Alliance
- 100G Lambda MSA
- OSFP MSA
- QSFP-DD MSA
- ROHS-6

- Standards compliant cables and cable assemblies must be used as specified in the standards section

- As per IEEE specifications, minimum cabling distance for -LR, -SR, -SX, -LX modules is 2m

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

** Per IEEE 802.3ae - Links beyond 30 km over single-mode fiber are considered engineered links

*** When 1000BASE-LX is used with FDDI grade OM1 or OM2 multi-mode fiber, a mode conditioning patch cord must be used at the transmitter. Mode conditioning patch cord is not required for OM3 fiber.

Gigabit Ethernet SFP Specifications

PHY Type	Connector Type	Wave-length (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Tx power (dBm)	Rx power (dBm)	Max Operating Distance
1000BASE-SX	LC	850	MMF	62.5	160	-9.5 to -4.0	-17 to 0.0	220m
				62.5	200			275m
				50.0	400			500m
				50.0	500			550m
1000BASE-LX	LC	1310	MMF***	62.5	500	-9.5 to -3.0	-19 to -3.0	550m
				50.0	400			550m
				50.0	500			550m
			SMF	G.652	–	-9.5 to -3.0	-19 to -3.0	10km
1000BASE-T	RJ-45	–	Cat5 (UTP)	–	–	–	–	100m

25 Gigabit and 10 Gigabit Ethernet Cable Specifications

PHY Type	Connector Type	Wavelength (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Operating Distance
10GBASE-CR	SFP+ (Both ends)	–	Twinax Copper	–	–	0.5m to 5m
10GBASE-CR	QSFP+ to 4 x SFP+	–	Twinax Copper	–	–	0.5m to 5m
10GBASE-AOC	SFP+ (Both ends)	850nm	MMF	–	–	3m to 30m
25GBASE-CR	SFP (Both ends)	–	Twinax Copper	–	–	1m to 5m
25GBASE-AOC	SFP (Both ends)	850nm	MMF	–	–	3m to 30m

25 Gigabit and 10 Gigabit Ethernet SFP/SFP+ Specifications

PHY Type	Connector Type	Wave-length (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Tx power (dBm)	Rx power (dBm)	Max Operating Distance
10GBASE-SR	LC	850	MMF	62.5	200	-7.3 to -1.0	-9.9 to -1.0	33m
				50.0	400			66m
				50.0	500			82m
				50.0	2000 (OM3)			300m
				50.0	4700 (OM4)			400m
10GBASE-SRL	LC	850	MMF	62.5	200	-8.0 to -1.0	-9.9 to -1.0	11m
				50.0	400			22m
				50.0	500			27m
				50.0	2000 (OM3)			100m
				50.0	4700 (OM4)			150m
10GBASE-LRL	LC	1310	SMF	G.652	–	-8.2 to 0.5	-12.5 to 0.5	1km
10GBASE-LR	LC	1310	SMF	G.652	–	-8.2 to 0.5	-14.4 to 0.5	10km
10GBASE-ERLBD	LC	1270 / 1310	SMF	G.652	–	0 to 5.0	0 to -15	30km
10GBASE-ERBD*	LC	1270 / 1310	SMF	G.652	–	0 to 5.0	-9 to -21	40km
10GBASE-ER*	LC	1550	SMF	G.652	–	-4.7 to 4.0	-15.0 to -1.0	40km**
10GBASE-ZR*	LC	1550	SMF	G.652	–	-1.0 to 4.0	-23.0 to -7.0	80km
10GBASE-DWDM* (Tunable)	LC	C-Band 1567.95 to 1529.94	SMF	G.652	–	-1.0 to 3.0	-23.0 to -7.0	80km
25GBASE-SR	LC	850	MMF	50.0	2000 (OM3/OM4)	-8.4 to 2.4	-11.0 to 3.0	70m/100m
25GBASE-LR	LC	1310	SMF	G.652	–	-6.5 to 2.0	-11.3 to 2.0	10km



40GBASE-UNIV QSFP+



40GBASE-LR4 QSFP+



10GBASE-CR: QSFP+ to 4 x SFP+



40GBASE-AOC Cable

40 Gigabit Ethernet QSFP+ Cable Specifications

PHY Type	Connector Type	Wavelength (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Operating Distance
40GBASE-CR4	QSFP+ to QSFP+	–	Twinax Copper	–	–	0.5m to 5m
10GBASE-CR	QSFP+ to 4 x SFP	–	Twinax Copper	–	–	0.5m to 5m
40GBASE-AOC	QSFP+ to QSFP+	850	MMF	–	–	3m to 100m

40 Gigabit Ethernet QSFP+ Optic Specifications

PHY Type	Connector Type	Wave-length (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Tx power (dBm)	Rx power (dBm)	Max Operating Distance
40GBASE-SR4	MPO	850	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-7.6 to -1 /lane	-9.5 to +2.4 /lane	100m 150m
40GBASE-XSR4	MPO	850	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-7.5 to +1 /lane	-9.9 to +2.4 /lane	300m 400m
40GBASE-BIDI	LC	850 900	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-4 to +5 /lane	-6 to +5 /lane	100m 150m
40GBASE-UNIV	LC	1271 1291 1311 1331	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-7 to +4.3 /lane	-10 to +4.3 /lane	150m 150m
			SMF	G.652	–	-10 to +2.3 /lane	-13.7 to +2.3 /lane	500m
40GBASE-LR4	LC		SMF	G.652	–	-7 to +2.3 /lane	-13.7 to +2.3 /lane	10km
40GBASE-LRL4	LC		SMF	G.652	–	-7 to +2.3 /lane	-11.5 to +2.3 /lane	1km
40GBASE-ER4*	LC		SMF	G.652	–	-2.7 to +3.8 /lane	-21.2 to -4.5 /lane	40km**
40GBASE-PLRL4	MPO	1310	SMF	G.652	–	-8.2 to +0.5 /lane	-12.5 to +0.5 /lane	1km
40GBASE-PLR4	MPO	1310	SMF	G.652	–	-8.2 to +0.5 /lane	-14.4 to +0.5 /lane	10km

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

** Per IEEE 802.3 - Links beyond 30 km over single-mode fiber are considered engineered links



100GBASE-LR4 QSFP

100 Gigabit Ethernet Cable Specifications

PHY Type	Connector Type	Wavelength (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Operating Distance
100GBASE-CR4	QSFP to QSFP	–	Twinax Copper	–	–	1, 2, 3, 5m
25GBASE-CR	QSFP to 4 x SFP	–	Twinax Copper	–	–	1, 2, 3m
100GBASE-AOC	QSFP to QSFP	850	MMF	–	–	3m to 30m



100GBASE-PSM4 QSFP

100 Gigabit Ethernet Optic Specifications

PHY Type	Connector Type	Wave-length (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Tx power (dBm)	Rx power (dBm)	Max Operating Distance
100GBASE-SR4	MPO	850	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-8.4 to +2.4 /lane	-10.3 to +2.4 / lane	70m 100m
100GBASE-XSR4	MPO	850	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-8.3 to +2.4 /lane	-10.3 to +2.4 /lane	150m 300m
100GBASE-SWDM4	LC	850 880 910 940	OM3 OM4	50.0 50.0	2000 (OM3) 4700(OM4)	-7.5 to +3.4 /lane	-9.3 to +3.4 / lane	70m 100m
100GBASE-BIDI	LC	855 908	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-6 to +4 /lane	-7.9 to +4 / lane	70m 100m
100GBASE-CWDM4	LC	1271 1291 1311 1331	SMF	G.652	–	-6.5 to +2.5 /lane	-11.5 to +2.5 / lane	2km
100GBASE-PSM4	MPO	1310	SMF	G.652	–	-9.4 to +2.0 /lane	-12.6 to +2.0 / lane	500m
100GBASE-LR4	LC	1295.56 1300.05 1304.58 1309.14	SMF	G.652	–	-4.3 to +4.5 /lane	-10.6 to +4.5 / lane	10km
100GBASE-LRL4	LC		SMF	G.652	–	-6.0 to +4.5 /lane	-10.0 to +4.5 / lane	2km
100GBASE-ERL4*	LC		SMF	G.652	–	-2.9 to +4.5 /lane	-16.9 to -4.9 / lane -20.9 to -4.9 / lane	30km without FEC 40km with FEC



100GBASE-CR4



25GBASE-CR: QSFP100 to 4 x SFP+

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

400 Gigabit Ethernet Cable Specifications

PHY Type	Connector Type	Wavelength (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Operating Distance
400GBASE-CR8	OSFP to OSFP	–	Twinax Copper	–	–	1, 2, 3m
400GBASE-CR8	QSFP-DD to QSFP-DD	–	Twinax Copper	–	–	1, 2, 2.5m
400GBASE-CR8 to 2x 200GBASE-CR4	OSFP to 2x QSFP	–	Twinax Copper	–	–	1, 2, 3m
400GBASE-CR8 to 2x 200GBASE-CR4	QSFP-DD to 2x QSFP	–	Twinax Copper	–	–	1, 2, 2.5m
400GBASE-CR8 to 4x 100GBASE-CR2	OSFP to 4x QSFP	–	Twinax Copper	–	–	1, 2, 3m
400GBASE-CR8 to 4x 100GBASE-CR2	QSFP-DD to 4x QSFP	–	Twinax Copper	–	–	1, 2, 2.5m
400GBASE-CR8 to 8x 50GBASE-CR	OSFP to 8x SFP	–	Twinax Copper	–	–	1, 2, 3m
400GBASE-CR8 to 8x 50GBASE-CR	QSFP-DD to 8x SFP	–	Twinax Copper	–	–	1, 2, 2.5m
400GBASE-AOC	OSFP to OSFP or QSFP-DD to QSFP-DD	850	MMF	–	–	3m to 30m

400 Gigabit Ethernet Optic Specifications

PHY Type	Connector Type	Wave-length (nm)	Cable Type	Core Size (um)	Modal Bandwidth (MHz*Km)	Tx power (dBm)	Rx power (dBm)	Max Operating Distance
400GBASE-SR8	MPO	850	OM3 OM4	50.0 50.0	2000 (OM3) 4700 (OM4)	-6.0 to +4.0 /lane	-7.9 to +4.0 / lane	100m 100m
400GBASE-FR4	LC	1271 1291 1311 1331	SMF	G.652	–	-3.3 to +3.5 /lane	-7.3 to +3.5 / lane	2km
400GBASE-2FR4	CS	1271 1291 1311 1331	SMF	G.652	–	-4.2 to 4.7 /lane	-8.2 to 4.7 /lane	2km
400GBASE-DR4	MPO	1310	SMF	G.652	–	-2.9 to +4.0 /lane	-5.9 to +4.0 / lane	500m



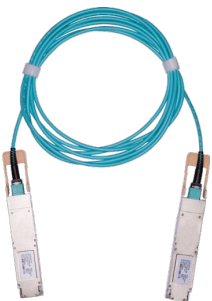
400GBASE-DR4 OSFP



400GBASE-SR8 OSFP



400GBASE-2FR4 OSFP



400GBASE-AOC OSFP



400GBASE-CR8 OSFP

Order Number	Product Description
400 Gigabit Ethernet OSFP Twinax Copper cables	
CAB-O-O-400G-1M	400GBASE-CR8 OSFP to OSFP Twinax Copper Cable 1 meter
CAB-O-O-400G-2M	400GBASE-CR8 OSFP to OSFP Twinax Copper Cable 2 meter
CAB-O-O-400G-3M	400GBASE-CR8 OSFP to OSFP Twinax Copper Cable 3 meter
CAB-O-2Q-400G-1M	400GBASE-CR8 OSFP to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 1 meter
CAB-O-2Q-400G-2M	400GBASE-CR8 OSFP to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 2 meter
CAB-O-2Q-400G-3M	400GBASE-CR8 OSFP to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 3 meter
CAB-O-4Q-400G-1M	400GBASE-CR8 OSFP to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 1 meter
CAB-O-4Q-400G-2M	400GBASE-CR8 OSFP to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 2 meter
CAB-O-4Q-400G-3M	400GBASE-CR8 OSFP to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 3 meter
CAB-O-8S-400G-1M	400GBASE-CR8 OSFP to 8 x 50GBASE-CR SFP Twinax Copper Cable, 1 meter
CAB-O-8S-400G-2M	400GBASE-CR8 OSFP to 8 x 50GBASE-CR SFP Twinax Copper Cable, 2 meter
CAB-O-8S-400G-3M	400GBASE-CR8 OSFP to 8 x 50GBASE-CR SFP Twinax Copper Cable, 3 meter
400 Gigabit Ethernet OSFP Active Optical Cables	
AOC-O-O-400G-1M	400GbE OSFP to OSFP Active Optical Cable, 1m
AOC-O-O-400G-3M	400GbE OSFP to OSFP Active Optical Cable, 3m
AOC-O-O-400G-5M	400GbE OSFP to OSFP Active Optical Cable, 5m
AOC-O-O-400G-7M	400GbE OSFP to OSFP Active Optical Cable, 7m
AOC-O-O-400G-10M	400GbE OSFP to OSFP Active Optical Cable, 10m
AOC-O-O-400G-15M	400GbE OSFP to OSFP Active Optical Cable, 15m
AOC-O-O-400G-20M	400GbE OSFP to OSFP Active Optical Cable, 20m
AOC-O-O-400G-25M	400GbE OSFP to OSFP Active Optical Cable, 25m
AOC-O-O-400G-30M	400GbE OSFP to OSFP Active Optical Cable, 30m
400 Gigabit Ethernet OSFP Optics	
OSFP-400G-SR8	400GBASE-SR4 OSFP transceiver, up to 100m over parallel OM3 or OM4 multi-mode fiber
OSFP-400G-DR4	400GBASE-DR4 OSFP Optics Module, up to 500m over parallel SMF
OSFP-400G-XDR4	400GBASE-XDR4 OSFP Optics Module, up to 2km over parallel SMF
OSFP-400G-FR4	400GBASE-FR4 OSFP Optics Module, up to 2km over duplex SMF
OSFP-400G-2FR4	400GBASE-2FR4 OSFP Optics Module, up to 2km over 2 pairs of duplex SMF

Order Number	Product Description
400 Gigabit Ethernet QSFP-DD Twinax Copper cables	
CAB-D-D-400G-1M	400GBASE-CR8 QSFP-DD to QSFP-DD Twinax Copper Cable 1 meter
CAB-D-D-400G-2M	400GBASE-CR8 QSFP-DD to QSFP-DD Twinax Copper Cable 2 meter
CAB-D-D-400G-2.5	400GBASE-CR8 QSFP-DD to QSFP-DD Twinax Copper Cable 2.5 meter
CAB-D-2Q-400G-1M	400GBASE-CR8 QSFP-DD to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 1 meter
CAB-D-2Q-400G-2M	400GBASE-CR8 QSFP-DD to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 2 meter
CAB-D-2Q-400G-2.5	400GBASE-CR8 QSFP-DD to 2 x 200GBASE-CR4 QSFP Twinax Copper Cable, 2.5 meter
CAB-D-4Q-400G-1M	400GBASE-CR8 QSFP-DD to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 1 meter
CAB-D-4Q-400G-2M	400GBASE-CR8 QSFP-DD to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 2 meter
CAB-D-4Q-400G-2.5	400GBASE-CR8 QSFP-DD to 4 x 100GBASE-CR2 QSFP Twinax Copper Cable, 2.5 meter
CAB-D-8S-400G-1M	400GBASE-CR8 QSFP-DD to 8 x 50GBASE-CR SFP Twinax Copper Cable, 1 meter
CAB-D-8S-400G-2M	400GBASE-CR8 QSFP-DD to 8 x 50GBASE-CR SFP Twinax Copper Cable, 2 meter
CAB-D-8S-400G-2.5	400GBASE-CR8 QSFP-DD to 8 x 50GBASE-CR SFP Twinax Copper Cable, 2.5 meter
400 Gigabit Ethernet QSFP-DD Active Optical Cables	
AOC-D-D-400G-1M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 1m
AOC-D-D-400G-3M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 3m
AOC-D-D-400G-5M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 5m
AOC-D-D-400G-7M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 7m
AOC-D-D-400G-10M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 10m
AOC-D-D-400G-15M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 15m
AOC-D-D-400G-20M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 20m
AOC-D-D-400G-25M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 25m
AOC-D-D-400G-30M	400GbE QSFP-DD to QSFP-DD Active Optical Cable, 30m
400 Gigabit Ethernet QSFP-DD Optics	
QDD-400G-DR4	400GBASE-DR4 QSFP-DD Optics Module, up to 500m over parallel SMF
QDD-400G-XDR4	400GBASE-XDR4 QSFP-DD Optics Module, up to 2km over parallel SMF
QDD-400G-FR4	400GBASE-FR4 QSFP-DD Optics Module, up to 2km over duplex SMF

Order Number	Product Description
100 Gigabit Ethernet QSFP Twinax Copper cables	
CAB-Q-Q-100G-0.5	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 0.5 meter
CAB-Q-Q-100G-1M	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 1 meter
CAB-Q-Q-100G-1.5	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 1.5 meter
CAB-Q-Q-100G-2M	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 2 meter
CAB-Q-Q-100G-2.5	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 2.5 meter
CAB-Q-Q-100G-3M	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 3 meter
CAB-Q-Q-100G-5M	100GBASE-CR4 QSFP to QSFP Twinax Copper Cable 5 meter
CAB-Q-4S-100G-1M	100GBASE-CR4 QSFP to 4 x 25GbE SFP Twinax Copper Cable, 1 meter
CAB-Q-4S-100G-2M	100GBASE-CR4 QSFP to 4 x 25GbE SFP Twinax Copper Cable, 2 meter
CAB-Q-4S-100G-3M	100GBASE-CR4 QSFP to 4 x 25GbE SFP Twinax Copper Cable, 3 meter
CAB-Q-4S-100G-5M	100GBASE-CR4 QSFP to 4 x 25GbE SFP Twinax Copper Cable, 5 meter
100 Gigabit Ethernet QSFP Active Optical Cables	
AOC-Q-Q-100G-1M	100GbE QSFP to QSFP Active Optical Cable, 1m
AOC-Q-Q-100G-3M	100GbE QSFP to QSFP Active Optical Cable, 3m
AOC-Q-Q-100G-5M	100GbE QSFP to QSFP Active Optical Cable, 5m
AOC-Q-Q-100G-7M	100GbE QSFP to QSFP Active Optical Cable, 7m
AOC-Q-Q-100G-10M	100GbE QSFP to QSFP Active Optical Cable, 10m
AOC-Q-Q-100G-15M	100GbE QSFP to QSFP Active Optical Cable, 15m
AOC-Q-Q-100G-20M	100GbE QSFP to QSFP Active Optical Cable, 20m
AOC-Q-Q-100G-25M	100GbE QSFP to QSFP Active Optical Cable, 25m
AOC-Q-Q-100G-30M	100GbE QSFP to QSFP Active Optical Cable, 30m
100 Gigabit Ethernet QSFP Optics	
QSFP-100G-SR4	100GBASE-SR4 QSFP transceiver, up to 70m over parallel OM3 or 100m over OM4 multi-mode fiber
QSFP-100G-XSR4	100GBASE-XSR4 QSFP transceiver, up to 150m over parallel OM3 or 300m over OM4 multi-mode fiber
QSFP-100G-SWDM4	100GBASE-SWDM4 QSFP transceiver, up to 70m over OM3 or 100m over OM4 duplex multi-mode fiber
QSFP-100G-SRBD	100GBASE-BIDI QSFP transceiver, up to 70m over OM3 or 100m over OM4 duplex multi-mode fiber
QSFP-100G-PSM4	100GBASE-PSM4 QSFP Optics Module, up to 500m over parallel SMF
QSFP-100G-LR4	100GBASE-LR4 QSFP Optics Module, up to 10km over duplex SMF
QSFP-100G-LRL4	100GBASE-LRL4 QSFP Optics Module, up to 2km over duplex SMF
QSFP-100G-CWDM4	100GBASE-CWDM4 QSFP Optics Module, up to 2km over duplex SMF
QSFP-100G-ERL4	100GBASE-ERL4 QSFP100 transceiver, 30 to 40km over single-mode fiber

Order Number	Product Description
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40 Gigabit Ethernet QSFP+ Twinax Copper Cables

CAB-Q-Q-0.5M	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable 0.5 meter
CAB-Q-Q-1M	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable 1 meter
CAB-Q-Q-2M	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable 2 meter
CAB-Q-Q-3M	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable 3 meter
CAB-Q-Q-5M	40GBASE-CR4 QSFP+ to QSFP+ Twinax Copper Cable 5 meter
CAB-Q-S-0.5M	4 x 10GbE QSFP+ to 4 x SFP+ Twinax Copper Cable 0.5 meter
CAB-Q-S-1M	4 x 10GbE QSFP+ to 4 x SFP+ Twinax Copper Cable 1 meter
CAB-Q-S-2M	4 x 10GbE QSFP+ to 4 x SFP+ Twinax Copper Cable 2 meter
CAB-Q-S-3M	4 x 10GbE QSFP+ to 4 x SFP+ Twinax Copper Cable 3 meter
CAB-Q-S-5M	4 x 10GbE QSFP+ to 4 x SFP+ Twinax Copper Cable 5 meter

40 Gigabit Ethernet QSFP+ Active Optical Cables

AOC-Q-Q-40G-3M	QSFP+ to QSFP+ 40GbE Active Optical Cable 3 meter
AOC-Q-Q-40G-5M	QSFP+ to QSFP+ 40GbE Active Optical Cable 5 meter
AOC-Q-Q-40G-7M	QSFP+ to QSFP+ 40GbE Active Optical Cable 7 meter
AOC-Q-Q-40G-10M	QSFP+ to QSFP+ 40GbE Active Optical Cable 10 meter
AOC-Q-Q-40G-15M	QSFP+ to QSFP+ 40GbE Active Optical Cable 15 meter
AOC-Q-Q-40G-20M	QSFP+ to QSFP+ 40GbE Active Optical Cable 20 meter
AOC-Q-Q-40G-25M	QSFP+ to QSFP+ 40GbE Active Optical Cable 25 meter
AOC-Q-Q-40G-30M	QSFP+ to QSFP+ 40GbE Active Optical Cable 30 meter
AOC-Q-Q-40G-50M	QSFP+ to QSFP+ 40GbE Active Optical Cable 50 meter
AOC-Q-Q-40G-75M	QSFP+ to QSFP+ 40GbE Active Optical Cable 75 meter
AOC-Q-Q-40G-100M	QSFP+ to QSFP+ 40GbE Active Optical Cable 100 meter

40 Gigabit Ethernet QSFP+ Optics

QSFP-40G-SR4	40GBASE-SR4 QSFP+ Optic, up to 100m over OM3 MMF or 150m over OM4 MMF
QSFP-40G-XSR4	40GBASE-XSR4 QSFP+ Optic, up to 300m over OM3 MMF or 400m over OM4 MMF
QSFP-40G-SRBD	40GBASE-BIDI Bidirectional QSFP+ Optic, up to 100m over duplex OM3 or 150m over duplex OM4 multi-mode fiber
QSFP-40G-SRBD-R	40GBASE-BIDI Receiver only QSFP+, up to 100m over duplex OM3 or 150m over duplex OM4 multi-mode fiber
QSFP-40G-UNIV	40G Universal QSFP+ Optic, up to 150m over duplex OM3 and OM4 MMF or 500m over duplex SMF
QSFP-40G-LR4	40GBASE-LR4 QSFP+ Optic, up to 10km over SMF
QSFP-40G-LRL4	40G QSFP+ Optic, up to 1km over duplex SMF
QSFP-40G-PLR4	40G QSFP+ Optic, up to 10km over parallel SMF (4x10G LR up to 10km) MTP-12
QSFP-40G-PLRL4	40G QSFP+ Optic, up to 1km over parallel SMF (4x10G LR up to 1km) MTP-12
QSFP-40G-ER4	40GBASE-ER4 QSFP+ Optic, up to 40km over SMF

Order Number	Product Description
25 Gigabit Ethernet SFP Twinax Copper Cables	
CAB-S-S-25G-1M	25GBASE-CR SFP to SFP Twinax Copper Cable 1 meter
CAB-S-S-25G-2M	25GBASE-CR SFP to SFP Twinax Copper Cable 2 meter
CAB-S-S-25G-3M	25GBASE-CR SFP to SFP Twinax Copper Cable 3 meter
CAB-S-S-25G-5M	25GBASE-CR SFP to SFP Twinax Copper Cable 5 meter
25 Gigabit Ethernet SFP Active Optical Cables	
AOC-S-S-25G-3M	SFP to SFP 25GbE Active Optical Cable 3 meter
AOC-S-S-25G-5M	SFP to SFP 25GbE Active Optical Cable 5 meter
AOC-S-S-25G-7M	SFP to SFP 25GbE Active Optical Cable 7 meter
AOC-S-S-25G-10M	SFP to SFP 25GbE Active Optical Cable 10 meter
AOC-S-S-25G-15M	SFP to SFP 25GbE Active Optical Cable 15 meter
AOC-S-S-25G-20M	SFP to SFP 25GbE Active Optical Cable 20 meter
AOC-S-S-25G-25M	SFP to SFP 25GbE Active Optical Cable 25 meter
AOC-S-S-25G-30M	SFP to SFP 25GbE Active Optical Cable 30 meter
25 Gigabit Ethernet SFP Optics	
SFP-25G-SR	25GBASE-SR SFP Optics Module, up to 70m over OM3 MMF or 100m over OM4 MMF
SFP-25G-LR	25GBASE-LR SFP Optics Module, up to 10 km over duplex SMF

Order Number	Product Description
10 Gigabit Ethernet SFP+ Cables	
CAB-SFP-SFP-0.5M	10GBASE-CR SFP+ Cable 0.5 meter
CAB-SFP-SFP-1M	10GBASE-CR SFP+ Cable 1 meter
CAB-SFP-SFP-1.5M	10GBASE-CR SFP+ Cable 1.5 meter
CAB-SFP-SFP-2M	10GBASE-CR SFP+ Cable 2 meter
CAB-SFP-SFP-2.5M	10GBASE-CR SFP+ Cable 2.5 meter
CAB-SFP-SFP-3M	10GBASE-CR SFP+ Cable 3 meter
CAB-SFP-SFP-5M	10GBASE-CR SFP+ Cable 5 meter
10G Gigabit Ethernet SFP+ Active Optical Cables	
AOC-S-S-10G-3M	SFP+ to SFP+ 10GbE Active Optical Cable 3 meter
AOC-S-S-10G-5M	SFP+ to SFP+ 10GbE Active Optical Cable 5 meter
AOC-S-S-10G-7M	SFP+ to SFP+ 10GbE Active Optical Cable 7 meter
AOC-S-S-10G-10M	SFP+ to SFP+ 10GbE Active Optical Cable 10 meter
AOC-S-S-10G-15M	SFP+ to SFP+ 10GbE Active Optical Cable 15 meter
AOC-S-S-10G-20M	SFP+ to SFP+ 10GbE Active Optical Cable 20 meter
AOC-S-S-10G-25M	SFP+ to SFP+ 10GbE Active Optical Cable 25 meter
AOC-S-S-10G-30M	SFP+ to SFP+ 10GbE Active Optical Cable 30 meter
10 Gigabit Ethernet SFP+ Optics	
SFP-10G-SRL	10GBASE-SRL SFP+ Optics Module, up to 100m over OM3 MMF or 150m over OM4 MMF
SFP-10G-SR	10GBASE-SR SFP+ Optics Module, up to 300m over OM3 MMF or 400m over OM4 MMF
SFP-10G-LRL	10GBASE-LRL SFP+ Optics Module, up to 1km over duplex SMF
SFP-10G-LR	10GBASE-LR SFP+ Optics Module, up to 10km over duplex SMF
SFP-10G-ERLBD-U	10GBASE-ERLBD SFP+ Optics Module, uplink, up to 30km over single fiber SMF
SFP-10G-ERLBD-D	10GBASE-ERLBD SFP+ Optics Module, downlink, up to 30km over single fiber SMF
SFP-10G-ERBD-U	10GBASE-ERBD SFP+ Optics Module, uplink, up to 40km over single fiber SMF
SFP-10G-ERBD-D	10GBASE-ERBD SFP+ Optics Module, downlink, up to 40km over single fiber SMF
SFP-10G-ER	10GBASE-ER SFP+ Optics Module, up to 40km over duplex SMF
SFP-10G-ZR	10GBASE-ZR SFP+ Optics Module, up to 80km over duplex SMF
SFP-10G-DZ-T	10GBASE-DWDM Tunable SFP+ Optics Module, Full C-Band 50 GHz ITU Grid, up to 80km over duplex SMF
Gigabit Ethernet SFP Optics and Copper	
SFP-1G-SX	1000BASE-SX SFP Optics Module
SFP-1G-LX	1000BASE-LX SFP Optics Module
SFP-1G-T	100/1000BASE-T SFP Copper Module

Arista 50GHz Channel Numbers and Wavelengths (50GHz ITU grid)

Channel Number	Frequency (THz)	Wavelength (nm)	Channel Number	Frequency (THz)	Wavelength (nm)	Channel Number	Frequency (THz)	Wavelength (nm)
1	191.2	1567.95	33	192.8	1554.94	65	194.4	1542.14
2	191.25	1567.54	34	192.85	1554.53	66	194.45	1541.74
3	191.3	1567.13	35	192.9	1554.13	67	194.5	1541.35
4	191.35	1566.72	36	192.95	1553.73	68	194.55	1540.95
5	191.4	1566.31	37	193.0	1553.33	69	194.6	1540.55
6	191.45	1565.90	38	193.05	1552.92	70	194.65	1540.16
7	191.5	1565.49	39	193.1	1552.52	71	194.7	1539.76
8	191.55	1565.08	40	193.15	1552.12	72	194.75	1539.37
9	191.6	1564.68	41	193.2	1551.72	73	194.8	1538.97
10	191.65	1564.27	42	193.25	1551.32	74	194.85	1538.58
11	191.7	1563.86	43	193.3	1550.92	75	194.9	1538.18
12	191.75	1563.45	44	193.35	1550.51	76	194.95	1537.79
13	191.8	1563.04	45	193.4	1550.11	77	195.0	1537.39
14	191.85	1562.64	46	193.45	1549.71	78	195.05	1537.00
15	191.9	1562.23	47	193.5	1549.31	79	195.1	1536.61
16	191.95	1561.82	48	193.55	1548.91	80	195.15	1536.21
17	192.0	1561.42	49	193.6	1548.51	81	195.2	1535.82
18	192.05	1561.01	50	193.65	1548.11	82	195.25	1535.43
19	192.1	1560.60	51	193.7	1547.71	83	195.3	1535.03
20	192.15	1560.20	52	193.75	1547.31	84	195.35	1534.64
21	192.2	1559.79	53	193.8	1546.91	85	195.4	1534.25
22	192.25	1559.39	54	193.85	1546.52	86	195.45	1533.86
23	192.3	1558.98	55	193.9	1546.12	87	195.5	1533.46
24	192.35	1558.58	56	193.95	1545.72	88	195.55	1533.07
25	192.4	1558.17	57	194.0	1545.32	89	195.6	1532.68
26	192.45	1557.77	58	194.05	1544.92	90	195.65	1532.29
27	192.5	1557.36	59	194.1	1544.52	91	195.7	1531.90
28	192.55	1556.96	60	194.15	1544.13	92	195.75	1531.50
29	192.6	1556.55	61	194.2	1543.73	93	195.8	1531.11
30	192.65	1556.15	62	194.25	1543.33	94	195.85	1530.72
31	192.7	1555.74	63	194.3	1542.93	95	195.9	1530.33
32	192.75	1555.34	64	194.35	1542.54	96	195.95	1529.94

Arista 100GHz Channel Numbers and Wavelengths (100GHz ITU grid)

Channel Number	Frequency (THz)	Wavelength (nm)	Channel Number	Frequency (THz)	Wavelength (nm)	Channel Number	Frequency (THz)	Wavelength (nm)
1	191.2	1567.95	17	192.8	1554.94	33	194.4	1542.14
2	191.3	1567.13	18	192.9	1554.13	34	194.5	1541.35
3	191.4	1566.31	19	193.0	1553.33	35	194.6	1540.55
4	191.5	1565.49	20	193.1	1552.52	36	194.7	1539.76
5	191.6	1564.68	21	193.2	1551.72	37	194.8	1538.97
6	191.7	1563.86	22	193.3	1550.92	38	194.9	1538.18
7	191.8	1563.04	23	193.4	1550.11	39	195.0	1537.39
8	191.9	1562.23	24	193.5	1549.31	40	195.1	1536.61
9	192.0	1561.42	25	193.6	1548.51	41	195.2	1535.82
10	192.1	1560.60	26	193.7	1547.71	42	195.3	1535.03
11	192.2	1559.79	27	193.8	1546.91	43	195.4	1534.25
12	192.3	1558.98	28	193.9	1546.12	44	195.5	1533.46
13	192.4	1558.17	29	194.0	1545.32	45	195.6	1532.68
14	192.5	1557.36	30	194.1	1544.52	46	195.7	1531.90
15	192.6	1556.55	31	194.2	1543.73	47	195.8	1531.11
16	192.7	1555.74	32	194.3	1542.93	48	195.9	1530.33

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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