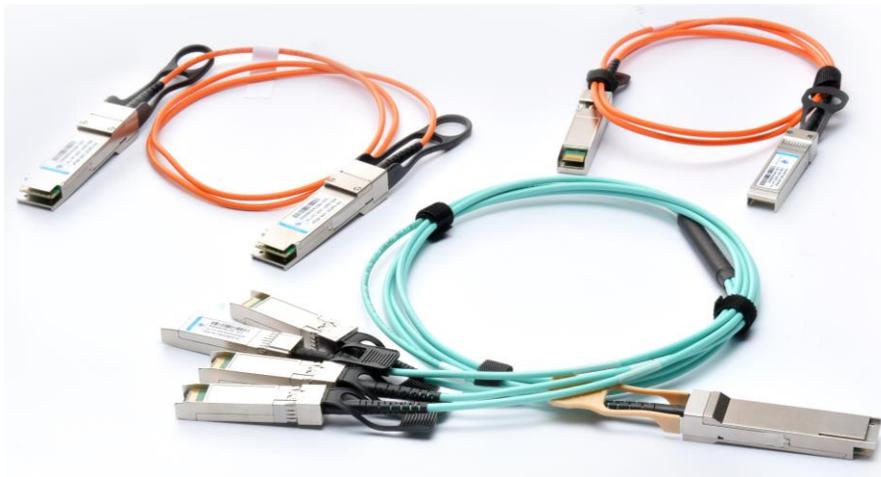


AT A GLANCE

E.C.I. NETWORKS's Active Optical Cables (AOC) are suitable for short distances and offer a flexible way to connect within racks and across racks. Active optical cables are much thinner and lighter than copper cables, which makes cable management easier. AOCs enable efficient system airflow, which is critical in high-density racks. We currently offer active optical cables in different standard lengths of or any custom upon request.

An added advantage of using our AOCs is our ability to code for multi-vendor solutions, allowing you to connect from one vendor's switch to another vendor's switch or NIC.



AOC Features and Advantages

- Compared to less expensive DAC cables, AOCs offer:
 - Longer reach capability than DAC 3-7 meter limits
 - 3-100 meter multi-mode technology
 - 100-200 meters single-mode technology
 - Thinner, lighter, and tighter bend radius cables enabling more flexible configurations, increased airflow for cooling, and easier system maintenance
- Compared to more expensive optical transceivers, AOCs offer:
 - Dramatically lower priced solution than two optical transceivers and connectorized fiber based links
 - Lower power consumption at 2.2 Watts versus up to 2.6 to 4.5 Watts for optical transceivers (4-channel)
 - Lower operational and maintenance cost
- **Proven and tested on Multiple platforms including Cisco, Juniper, Arista SFP28 25G ports for superior performance, quality, and reliability**

PRODUCT FEATURES

40/56G QSFP+ AOC

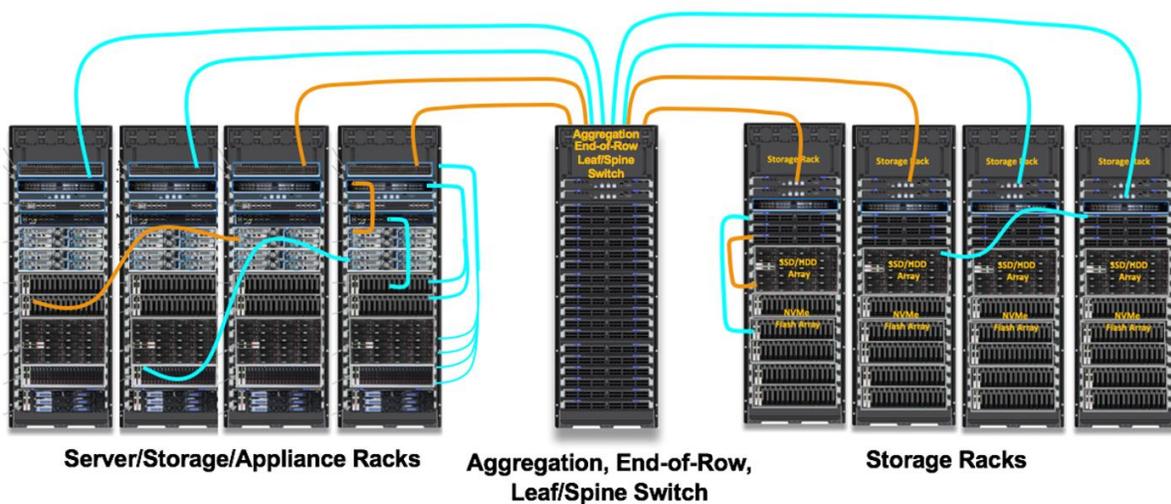
- Data Rate (Per Channel) 10.3125 Gbp/s
- Aggregate Bit Rate 41.2 Gbp/s
- Transmission Distance up to 100m (OM4)
- QSFP+ End 1 QSFP+ MSA Compliant
- QSFP+ End 2 QSFP+ MSA Compliant
- Power Supply Single 3.3V
- Temperature Range -5 to +70°C
- Power Consumption < 1.3W per cable end
- RoHS-6 Compliant

100G QSFP28 AOC

- Data Rate (Per Channel) 25.78Gbp/s
- Aggregate Bit Rate 103.125 Gbp/s
- Transmission Distance Up to 100m
- QSFP28 End 1 QSFP28 MSA Compliant
- QSFP28 End 2 QSFP28 MSA Compliant
- Power Supply Single 3.3V
- Temperature Range -5 to +70°C
- Power Consumption < 1.3W per cable end
- RoHS-6 Compliant

AOC Applications

Here is an example of how AOCs are typically used inside systems racks to link subsystems together, between switches, and across systems in rows:



Ordering Information

QSFP+ to QSFP+ Active Optical Cable (AOC) (custom length is available on request)	
EN-QAOC-1M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 1-meter
EN-QAOC-5M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 5-meter
EN-QAOC-10M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 10-meter
EN-QAOC-15M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 15-meter
EN-QAOC-20M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 20-meter
EN-QAOC-30M-xx	QSFP+ to QSFP+ 40GBase Active Optical Cable (AOC) 30-meter
QSFP+ to 4x 10G SFP+ Active Optical Cable (AOC) (custom length is available on request)	
EN-QAOCBO-15M-xx	QSFP+ to 4x 10G SFP+ Active Optical Cable (AOC) 15-meter
40G QSFP+ to QSFP+ INFINIBAND Active Optical Cable (AOC) (custom length is available on request)	
EN-IQAOC-5M-xx	QSFP+ to QSFP+ Infiniband 40GBase Active Optical Cable (AOC) 5-meter
EN-IQAOC-10M-xx	QSFP+ to QSFP+ Infiniband 40GBase Active Optical Cable (AOC) 10-meter
EN-IQAOC-15M-xx	QSFP+ to QSFP+ Infiniband 40GBase Active Optical Cable (AOC) 15-meter
EN-IQAOC-30M-xx	QSFP+ to QSFP+ Infiniband 40GBase Active Optical Cable (AOC) 30-meter
EN-IQAOC-50M-xx	QSFP+ to QSFP+ Infiniband 40GBase Active Optical Cable (AOC) 50-meter
QSFP28 to QSFP28 Active Optical Cable (AOC) (custom length is available on request)	
EN-Q28AOC-1M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 1-meter,
EN-Q28AOC-3M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 3-meter,
EN-Q28AOC-5M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 5-meter,
EN-Q28AOC-7M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 7-meter,
EN-Q28AOC-10M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 10-meter,
EN-Q28AOC-15M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 15-meter,
EN-Q28AOC-20M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 20-meter,
EN-Q28AOC-30M-xx	QSFP28 to QSFP28 100GBase Active Optical Cable (AOC) 30-meter,

QSFP+ 56G to QSFP+ 56G INFINIBAND Active Optical Cable (AOC) (custom length is available on request)	
EN-IQ56AOC-1M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 3-meter,
EN-IQ56AOC-5M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 5-meter,
EN-IQ56AOC-10M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 10-meter,
EN-IQ56AOC-15M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 15-meter,
EN-IQ56AOC-20M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 20-meter,
EN-IQ56AOC-30M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 30-meter,
EN-IQ56AOC-50M-xx	56G FDR Infiniband QSFP+ to QSFP+ Active Optical Cable (AOC) 50-meter,
QSFP28 to QSFP28 INFINIBAND Active Optical Cable (AOC) (custom length is available on request)	
EN-IQ28AOC-1M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 1-meter,
EN-IQ28AOC-5M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 5-meter,
EN-IQ28AOC-10M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 10-meter,
EN-IQ28AOC-15M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 15-meter,
EN-IQ28AOC-20M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 20-meter,
EN-IQ28AOC-30M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 30-meter,
EN-IQ28AOC-50M-xx	QSFP28 to QSFP28 100GBase Infiniband (EDR) Active Optical Cable (AOC) 50-meter,
QSFP28 to 4XSFP28 Active Optical Cable (AOC) (custom length is available on request)	
EN-Q28AOCBO-1M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 1-meter
EN-Q28AOCBO-5M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 5-meter
EN-Q28AOCBO-10M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 10-meter

EN-Q28AOCBO-15M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 15-meter
EN-Q28AOCBO-20M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 20-meter
EN-Q28AOCBO-30M-xx	QSFP28 to 4XSFP28 100GBase Active Optical Cable (AOC) 30-meter

Product Selection

xx: Refers to vendor compatibility

I: I refers to Industrial Temperature where applicable

Per example:

EN-SFP10G-LR-EZ refers to Commercial Temperature, and compatible with Evertz, EN-SFP10GIDL-JREX refers to Industrial Temperature, and compatible with Juniper EX Series

** Please note pricing is same for most of the NEMs including Cisco, Juniper, F5, Fortinet, except HP, Evertz. There is an additional charge

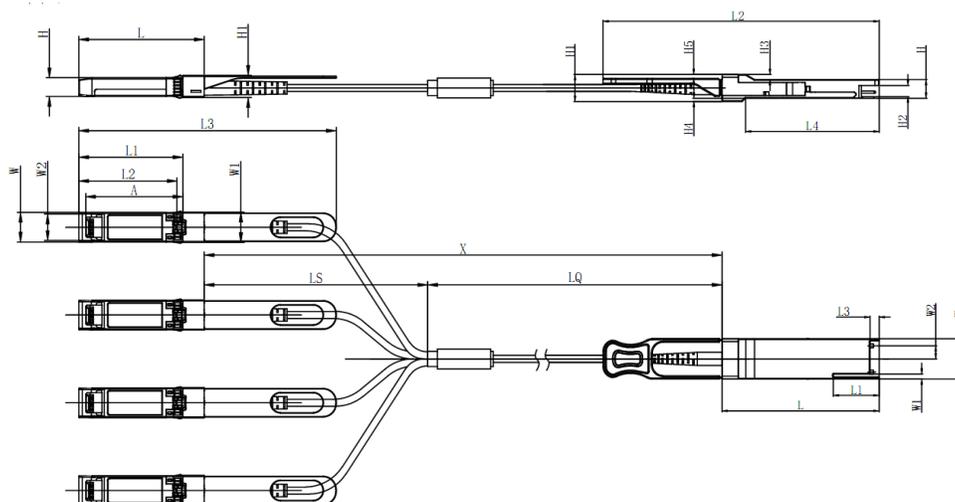
Compatibility; Tested and Proven

- ◆ Proven Compatibility and Interoperability with; Cisco, Juniper, ALCATEL-LUCENT, ADVA, Brocade, CIENA, Huawei, PacketLight, Transmode, NEtInsight, ToyoTech, etc.
- ◆ Test and Visibility equipment such as; IXIA, GIGAMON, VSS, SPIRENT, JDSU, XENA, EXFO, etc.

Compliance

All our products come with Built-in digital diagnostic functions DDM Compliant with SFF-8472 Rev12 and Compliant with the MSA SFF SPECIFICATIONS.

Mechanical specifications



Notice:

ECI Networks reserves the right to make changes to or discontinue any optical link product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only.

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