LINK AMERICAN CABLING
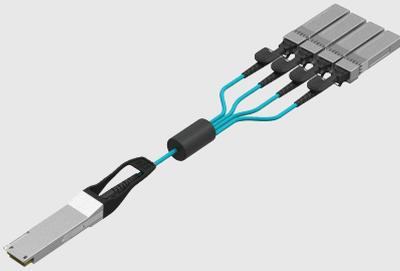
AOC (Active Optical Cable)

40G QSFP+ to 4x10G SFP+ Breakout AOC

UT-A40GQS-4S-XXYYZZZ

Scope of Application

LINK 40G QSFP+ AOC are high performance, cost effective I/O solutions for 40G Ethernet applications. AOC is a multi-mode optical fiber with a module attached to each end. It uses electrical-to-optical conversion on the cable ends to improve speed and distance performance of the cable.

40G QSFP+ AOC allow hardware manufactures to achieve high port density, configurability, stability and utilization at a cost-effective and flexible short-reach in the interconnect system. The high speed cable assemblies meet Ethernet standard requirements for performance and reliability.

AOC cabling solutions offer for short-range transmissions and to be mostly used to interconnect between two devices for switches/servers to switches within or between different racks inside data center.
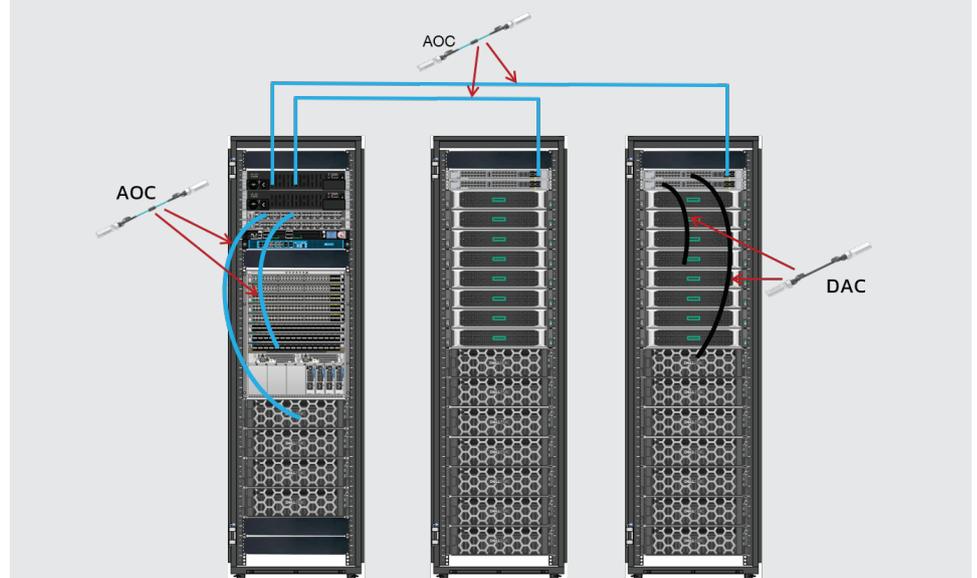
Features Highlight

- Hot-Pluggable and support data rate up to 40Gbps
- Supporting 40Gbps to 4x10Gbps
- Compliant with IEEE 802.3ba 40 Gigabit Ethernet and IEEE 802.3ae 10 Gigabit Ethernet
- Compliant with Fibre Channel standard
- Compliant with QSFP+ and SFP+ MSA
- 850nm VCSEL transmitter
- PIN photo-detector receiver

- Compliant with SFF-8436, SFF-8431, SFF-8432
- All-metal housing for superior EMI performance
- Low power consumption
- Single +3.3V Power supply
- Operating temperature from 0°C to 70°C
- Cost effective QSFP+, SFP+ solution, enables higher port densities and greater bandwidth
- RoHS Compliant

Applications

- Data center cabling infrastructure
- High Speed Data Center Interconnect
- 40 Gigabit Ethernet, 10 Gigabit Ethernet
- 40G QSFP+ and 10G SFP+ Form Factor

- Pre-terminated design
- Switch to Switch interface
- Router/Server/Network Storage interface
- Switched backplane applications

▶ **Cable Typical Capability of Network Deployment**

AOC

AOC

DAC

Can be used for EoR and ToR Architecture in Data Center

Technical Data

Standards	
IEEE 802.3ae	10 Gigabit Ethernet
IEEE 802.3ba	40 Gigabit Ethernet

Mechanical and Environment	
Form Factor	QSFP+, SFP+
Connector Type	QSFP+ to 4xSFP+
Cable Length	Up to 100 meters
Power Supply Voltage	3.3V
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Operating Humidity	0% to 85% RH (non-condensing)
Storage Humidity	0% to 85% RH (non-condensing)
Compatible List	Alcatel, Allied Telesis, Arista, Aruba, Avaya, Brocade, Cisco, Cisco Meraki, Dahua, Dell, Delta, D-Link, Ericsson, Extreme, Fiberhome, Fortinet, H3C, Hikvision, Hirschmann, HP/HPE, Huawei, IBM, INTEL, Juniper, Linksys, Mellanox, MikroTik, Moxa, Netgear, Nokia, Nortel, Palo Alto, QNAP, Ruckus, Ruijie, Sophos, Synology, TP-Link, Ubiquiti, ZTE, Zyxel, etc.

Certications	
EMI	FCC Class B & CE
Green Product	RoHS

Ordering Information	
UT-A40GQS-4S-XXYYZZZ	40G QSFP+ to 4x10G SFP+ Breakout AOC

Note :

* *Specifications subject to change without notice.*
* *XX, YY: Code of transceiver as requested from compatible list.*
* *ZZZ: Length as requested (40G QSFP+ Up to 100m).*

LC = LINK-Cisco	FN = Fortinet	
HP = Hewlett Packard	HC = H3C	
AB = Aruba	HM = Hirschmann	
AA = Adva/Adtran	HW = Huawei	
AL = Alcatel-Lucent	IB = IBM	
AT = Arista	IT = INTEL	
AY = Avaya	JP = Juniper	
BC = Brocade	MN = Mellanox	
CN = Ciena	NK = Nokia	
DL = Dell	SM = Siemens	
ES = Ericsson	ZT = ZTE	
ET = Extreme		

Drawing