

100G QSFP28 AOC 1-100m

100G Eth, QSFP28, AOC, MM, 1 to 100m, MPO

QA11-CG-xxM-C1

OVERVIEW

The QA11-CG-xxM-C1 is a 100Gbps QSFP28 Active Optical Cable (AOC) designed for high-speed, short-reach data communication in data center and high-performance computing environments. It integrates multimode optical fiber with QSFP28 transceiver modules on both ends, providing a compact and plug-and-play interconnect solution.

The AOC supports four-channel full-duplex transmission, where each channel operates at up to 25 Gb/s, enabling an aggregate data rate of 100Gbps. It uses VCSEL-based optical technology over multimode fiber (MMF), ensuring reliable performance with low latency and reduced electromagnetic interference compared to copper solutions.

This integrated cable solution eliminates the need for separate optical transceivers and patch cords, simplifying installation and improving overall system reliability. It is ideal for intra-rack and inter-rack connections, supporting reach distances from 1 meter up to 100 meters.

The module is compliant with QSFP28 form factor requirements and supports Digital Diagnostics via a two-wire interface for monitoring operational parameters. It operates from a single 3.3V power supply with low power dissipation (typically less than 3.5W per end) and supports a commercial operating temperature range of 0°C to +70°C.

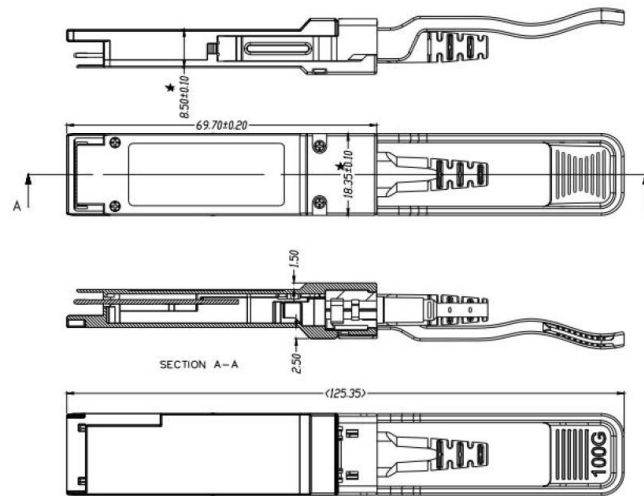
KEY SPECIFICATIONS

- Four-channel full-duplex architecture (4 × 25 Gb/s)
- Supports aggregate data rate up to 100Gbps
- VCSEL-based optical transmission over multimode fiber (MMF)
- Available cable lengths from 1m to 100m
- Single 3.3V power supply
- Low power consumption: < 3.5W per cable end
- Operating case temperature: 0°C to +70°C
- Supports Digital Diagnostics Monitoring (DDM) via two-wire interface

APPLICATIONS

- 100G Ethernet, 40G Ethernet (IEEE 802.3bm)
- InfiniBand FDR/EDR

DIMENSIONS



ORDERING INFORMATION

Ordering Code

Description

QA11-CG-01M-C1	100G QSFP28, AOC, MM, 1m, MPO, 0 to 70C
QA11-CG-02M-C1	100G QSFP28, AOC, MM, 2m, MPO, 0 to 70C
QA11-CG-03M-C1	100G QSFP28, AOC, MM, 3m, MPO, 0 to 70C
QA11-CG-04M-C1	100G QSFP28, AOC, MM, 4m, MPO, 0 to 70C
QA11-CG-05M-C1	100G QSFP28, AOC, MM, 5m, MPO, 0 to 70C
QA11-CG-06M-C1	100G QSFP28, AOC, MM, 6m, MPO, 0 to 70C
QA11-CG-07M-C1	100G QSFP28, AOC, MM, 7m, MPO, 0 to 70C
QA11-CG-08M-C1	100G QSFP28, AOC, MM, 8m, MPO, 0 to 70C
QA11-CG-09M-C1	100G QSFP28, AOC, MM, 9m, MPO, 0 to 70C
QA11-CG-10M-C1	100G QSFP28, AOC, MM, 10m, MPO, 0 to 70C
QA11-CG-15M-C1	100G QSFP28, AOC, MM, 15m, MPO, 0 to 70C
QA11-CG-20M-C1	100G QSFP28, AOC, MM, 20m, MPO, 0 to 70C
QA11-CG-30M-C1	100G QSFP28, AOC, MM, 30m, MPO, 0 to 70C
QA11-CG-50M-C1	100G QSFP28, AOC, MM, 50m, MPO, 0 to 70C
QA11-CG-A0M-C1	100G QSFP28, AOC, MM, 100m, MPO, 0 to 70C

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CONTACT INFORMATION

Email: sales@cloudphotonix.com

Phone: +91-1203116709, +91-1203116718

CloudPhotonix India Pvt. Ltd.

Block A-51, Sector 67

Noida – 201301, Uttar Pradesh, India