

DAC DATA SHEET

40G Direct Attach Cables



Champion ONE's 40G Direct Attach Cables (DACs) fill the need for short-range, cost-effective connectivity. In high-capacity server connections, DACs provide a power-efficient, easy-to-use replacement for optical transceivers and cables. These cables are fully compliant with EEPROM and memory map requirements to assure proper system identification and interoperability.

Champion ONE offers both straight QSFP+ and breakout cables with 4x10G SFP+ modules at one end for breakout/aggregation applications.

Technical Specifications

STANDARDS AND REGULATORY COMPLIANCE

RoHS compliant
IEEE802.3ba
QSFP+ MSA
SFP+ MSA

PROTOCOLS AND DATA RATES

40G Ethernet
10G Ethernet (breakout only)
Infiniband QDR

DIMENSIONS

LxWxH (mm): 72 (122 incl. pull ring) x 18.4 x 8.5
0.5m to 7m Copper Cable (24 to 30 AWG)

CONNECTOR

Cables terminate with their respective form factors.

WARRANTY

All feature a limited lifetime warranty.

NOTES

See page 2 for programming compatibility capabilities.

| C1 Part Number ¹ | Cable Type | Cable Gauge | Rated Distance (m) | Temperature Range (°C) | Description | Max Power Consumption (W) |
|---------------------------------------|------------|-----------------------|--|------------------------|---|---------------------------|
| 40G ETHERNET TO 40G ETHERNET | | | | | | |
| CAB-QSFP-40G-DACP-xM-C1 | Passive | 24-30AWG Copper Cable | 0.5 / 1 / 2 / 3 / 4 / 5 / 6 / 7 (x = 50C / 1 / 2 / 3 / 4 / 5 / 6 / 7) | -40 to 85 | 40G QSFP+ to QSFP+ Passive Direct Attach Cable, 0.5 to 7m, i-temp | 0.5 |
| 40G ETHERNET TO 4X10G ETHERNET | | | | | | |
| CAB-QSFP-4SFP10G-DACP-xM-C1 | Passive | 24-30AWG Copper Cable | 0.5 / 1 / 2 / 3 / 4 / 5 (x = 50C / 1 / 2 / 3 / 4 / 5) | -40 to 85 | 40G QSFP+ to 4x10G SFP+ Passive Breakout Direct Attach Cable, 0.5 to 5m, i-temp | 0.5 |

1. These part numbers are for **Passport** universal cables, which can be used across multiple platforms and open systems. For programmed options, please refer to page 2.

Ordering Information: Programmed Cables

To order a cable programmed for use in a specific system, simply add “-C1” to the end of your network platform part number. For example, to order a 3m DAC programmed for 100% Cisco compatibility, your C1 part number will be **QSFP-H40G-CU3M-C1**.

The technical specifications listed on page 1 will be the same for all programmed options.

Ordering Information: Multi-Vendor Programmed Cables

For multi-vendor environments that require programming for one-to-one compatibility, please use the following schemes:

PART NUMBER SCHEME:

QSFP40G-XX₁XX₂-CU-YM-C1
Q40X10G-XX₁XX₂-CU-YM-C1

| XX _N | Vendor Brand | | |
|-----------------|--------------|----|-------------|
| AC | Accedian | F5 | F5 Networks |
| AD | Adtran | FN | Fortinet |
| AL | Alcatel | HP | HP |
| AN | Arista | IB | IBM |
| AR | Aruba | IN | Intel |
| AV | Avaya | JN | Juniper |
| BC | Broadcom | LN | Lenovo |
| BR | Brocade | MK | Meraki |
| CX | Calix | MX | Mellanox |
| CS | Cisco | NP | NetApp |
| CD | Cohesity | NX | Nutanix |
| DF | Dell | PA | Palo Alto |
| EN | Enterasys | RB | Rubrik |
| EX | Extreme | XN | Xilinx |

| Y | Cable Length |
|-----|--------------|
| 50C | 50 cm |
| 1 | 1 m |
| 2 | 2 m |
| 3 | 3 m |
| 4 | 4 m |
| 5 | 5 m |