

## PASSPORT DATA SHEET

# 400G QSFP-DD



Champion ONE's 400G QSFP-DD optical transceivers are an ideal solution for 400G interconnects, e.g., within data centers. They employ PAM4 modulation technology to deliver data rates up to 400G (via 4x50Gb/s or 8x25Gb/s interfaces).

Champion ONE **Passport** transceivers are programmed for universal compatibility across multiple OEM platforms. This open methodology reduces costs and unlocks operational simplicity by reducing sparring costs.

## Technical Specifications

### STANDARDS AND REGULATORY COMPLIANCE

RoHS compliant  
 QSFP-DD MSA (multi-source agreement)  
 IEEE 802.3bs, 802.3cd  
 OIF-CEI-04.0

### APPLICATIONS

400G Ethernet

### CONNECTOR

SR8: MPO16 connector  
 DR4 / DR4+: MPO12 connector  
 LR8: LC connector

### WARRANTY

All feature a limited 3-year warranty

### NOTES

Available in standard temperature (0 to 70°C).

C1 Part Number	Wavelength (nm)	Fiber Type	Rated Distance	Description	Avg. Launch Power per Lane (min/max) (dBm)	Avg. Rx Power per Lane (min/max) (dBm)	Max Power Consumption (W)
<b>400G ETHERNET</b>							
400GQSFPDDE-SR8-MPO16	850 (8x50Gb/s)	MMF	100m (OM4)	400G QSFP-DD SR8 70m (OM3) / 100m (OM4) MMF, MPO16, C-Temp	-6.0 / 4.0	-7.9 / 4.0	10
400GQSFPDDE-SR8-MPO24	850 (8x50Gb/s)	MMF	100m (OM4)	400G QSFP-DD SR8 70m (OM3) / 100m (OM4) MMF, MPO24, C-Temp	-6.0 / 4.0	-7.9 / 4.0	10
400GQSFPDDE-DR4	1310	SMF	500m (w/ FEC)	400G QSFP-DD DR4 Single-rate Ethernet, 500m (with FEC), MTP/MPO12, C-Temp	-2.9 / 4.0	-5.9 / 4.0	12
400GQSFPDDE-DR4+	1310	SMF	2km (w/ FEC)	400G QSFP-DD DR4 Single-rate Ethernet, 2km (with FEC), MTP/MPO12, C-Temp	-2.4 / 4.0	-6.4 / 4.5	12
400GQSFPDDE-FR4	1264.5 - 1277.5 1284.5 - 1297.5 1304.5 - 1317.5 1324.5 - 1337.5	SMF	2km	400G QSFP-DD FR4, 4x106.25Gb/s PAM4, 4 CWDM lanes MUX/DEMUX design, SMF LC connector, C-Temp	-3.3 / 3.5	-7.3 / 3.5	12

C1 Part Number	Wavelength (nm)	Fiber Type	Rated Distance	Description	Avg. Launch Power per Lane (min/max) (dBm)	Avg. Rx Power per Lane (min/max) (dBm)	Max Power Consumption (W)
400GQSFPDDE-LR4	1264.5 - 1277.5 1284.5 - 1297.5 1304.5 - 1317.5 1324.5 - 1337.5	SMF	10km	400G QSFP-DD LR4, 4x106.25Gb/S PAM4, 4 CWDM lanes MUX/DEMUX design, SMF LC connector, C-Temp	-2.8 / 4.0	-9.1 / 4.0	12
400GQSFPDDE-LR8	L0: 1273.55 L1: 1277.85 L2: 1282.26 L3: 1286.67 L4: 1295.56 L5: 1300.06 L6: 1304.59 L7: 1309.14	SMF	10km	400G QSFP-DD LR8, 8x53Gb/S PAM4, 8 lanes LAN-WDM, SMF LC connector, C-Temp	-2.8 / 5.3	-9.1 / 5.3	14