



200G-800G  
AOC  
AEC  
ACC  
DAC

## Product List

High-speed  
**transceivers** and  
**cables** for your  
interconnects



WWW.NEPTECOS.COM

SALES@NEPTECOS.COM

CONTACT US:  
+1 (510) 687-1101

| Data Rates<br>(Gb/s)           | Product Description                | Optical<br>Interface | TX                    | RX                    | Transmitter Power (dBm) <sup>1</sup> |     | Receiver Power (dBm) <sup>1</sup> |     | Max Power<br>Consumption (W)          | Reach                       | Temperature<br>(deg C) |
|--------------------------------|------------------------------------|----------------------|-----------------------|-----------------------|--------------------------------------|-----|-----------------------------------|-----|---------------------------------------|-----------------------------|------------------------|
|                                |                                    |                      |                       |                       | Min                                  | Max | Min                               | Max |                                       |                             |                        |
| Transceivers                   |                                    |                      |                       |                       |                                      |     |                                   |     |                                       |                             |                        |
| 64G                            | SFP56 SW                           | Dual LC              | 850nm VCSEL           | PIN                   | -7.5                                 | 4.0 | NA                                | 4.0 | 1.7                                   | 100m                        | 0-70                   |
| 200G                           | QSFP56 SR4                         | MPO12                | 850nm VCSEL           | PIN                   | -6.5                                 | 4.0 | -8.4                              | 4.0 | 5.0                                   | 100m                        | 0-70                   |
|                                | QSFP28-DD SR8                      | MPO16 or 2xMPO12     | 850nm VCSEL           | PIN                   | -4.0                                 | 2.4 | -9.2                              | 2.4 | 4.5                                   | 100m                        | 0-70                   |
|                                | QSFP56 FR4                         | Dual LC              | CWDM4 EML             | PIN                   | -4.2                                 | 4.7 | -9.5                              | 4.7 | 6.5                                   | 2km                         | 0-70                   |
| 400G                           | QSFP112 VR4                        | MPO12                | 850nm VCSEL           | PIN                   | -4.6                                 | 4.0 | -6.3                              | 4.0 | 7.5(MXL)<br>8.5(JYW)                  | 50m OM4                     | 0-70                   |
|                                | QSFP56-DD SR8                      | MPO16                | 850nm VCSEL           | PIN                   | -6.5                                 | 4.0 | -7.9                              | 4.0 | 8.0                                   | 100m                        | 0-70                   |
|                                | QSFP112 SR8                        | MPO16                | 850nm VCSEL           | PIN                   | -6.5                                 | 4.0 | -7.9                              | 4.0 | 10.0                                  | 100m (OM4/OM5)<br>70m (OM3) | 0-70                   |
|                                | QSFP112 DR4 Gen2 (SiPh)            | MPO12                | 1310nm Sipho          | PIN                   | -2.9                                 | 4.0 | -5.9                              | 4.0 | 9.0                                   | 500m                        | 0-70                   |
|                                | QSFP112 FR4 Gen2 (SiPh)            | Dual LC              | CWDM4 Sipho           | PIN                   | -3.2                                 | 4.4 | -7.2                              | 4.4 | 9.5                                   | 2km                         | 0-70                   |
| 800G                           | OSFP VR8                           | MPO16 or 2xMPO12     | 850nm VCSEL           | PIN                   | -4.6                                 | 4.0 | -6.3                              | 4.0 | 16.5                                  | 50m                         | 0-70                   |
|                                | OSFP112 SR8                        | MPO16                | 850nm VCSEL           | PIN                   | -4.6                                 | 4.0 | -6.3                              | 4.0 | 15                                    | 100m                        | 0-70                   |
|                                | OSFP112 2xVR4                      | 2xMPO12              | 850nm VCSEL           | PIN                   | -3.0                                 | 4.0 | -6.4                              | 4.0 | 15.0                                  | 50m (OM4)<br>30m (OM3)      | 0-70                   |
|                                | OSFP112 2xDR4                      | 2xMPO12              | 1310nm EML            | PIN                   | -2.9                                 | 4.0 | -6.0                              | 4.0 | 15.0                                  | 500m                        | 0-70                   |
|                                | OSFP DR8 Gen2 (SiPh)               | MPO16 or 2xMPO12     | 1310nm Sipho          | PIN                   | -2.9                                 | 4.0 | -5.9                              | 4.0 | 14.5                                  | 500m                        | 0-70                   |
|                                | OSFP 2xFR4 Gen2 (SiPh)             | Dual Duplex LC       | CWDM4 Sipho           | PIN                   | -3.3                                 | 3.5 | -7.3                              | 3.5 | 15.0                                  | 2km                         | 0-70                   |
| Active Optical Cables (AOC)    |                                    |                      |                       |                       |                                      |     |                                   |     |                                       |                             |                        |
| 100G                           | DSFP AOC                           | AOC                  | 850nm VCSEL           | PIN                   | NA                                   | NA  | NA                                | NA  | 2.5                                   | 100m                        | 0-70                   |
| 200G                           | QSFP56 P2P/Y-AOC                   | AOC                  | 850nm VCSEL           | PIN                   | NA                                   | NA  | NA                                | NA  | 5.0                                   | 100m                        | 0-70                   |
| 400G                           | QSFP56-DD P2P/Y-AOC                | AOC                  | 850nm VCSEL           | PIN                   | NA                                   | NA  | NA                                | NA  | 8.0(QDD end)<br>5.0(Q56 end)          | 100m                        | 0-70                   |
|                                | QSFP-DD/OSFP to QSFP112 R-GB AOC   | AOC                  | 850nm VCSEL           | PIN                   | NA                                   | NA  | NA                                | NA  | 8.0(QDD end)<br>8.0(Q112 end)         | 100m                        | 0-70                   |
|                                | QSFP112 R-GB to 2x200G QSFP56 AOC  | Y-AOC                | 850nm VCSEL           | PIN                   | NA                                   | NA  | NA                                | NA  | 8.0(Q112 end)<br>5.0(Q56 end)         | 100m                        | 0-70                   |
| Active Electrical Cables (AEC) |                                    |                      |                       |                       |                                      |     |                                   |     |                                       |                             |                        |
| 400G                           | QSFP112 to 2x200G QSFP56 AEC Gen1  | Y-AEC                | 30AWG Cable           | 30AWG Cable           | NA                                   | NA  | NA                                | NA  | 6.0(Q112 end)<br>4.0(Q56 end)         | 5m                          | 0-70                   |
|                                | QSFP112-2XQSFP56 Half Y-AEC        | Y-AEC                | 30AWG Cable           | 30AWG Cable           | NA                                   | NA  | NA                                | NA  | 6.0(Q112 end)<br>4.0(Q56 end)         | 5m                          | 0-70                   |
| 800G                           | OSFP112 to 2x400G QSFP112 AEC Gen1 | Y-AEC                | 28AWG Cable           | 28AWG Cable           | NA                                   | NA  | NA                                | NA  | 10.0(OSFP112 end)<br>5.0(QSFP112 end) | 7m                          | 0-70                   |
|                                | OSFP112 to 800G OSFP112 AEC Gen1   | P2P AEC              | 30AWG/<br>32AWG Cable | 30AWG/<br>32AWG Cable | NA                                   | NA  | NA                                | NA  | 12.0 (OSFP112 end)x2                  | 5m/2.5m                     | 0-70                   |
| 1.6T                           | OSFP224-OSFP224 P2P AEC            | P2P AEC              | 26AWG/<br>28AWG Cable | 26AWG/<br>28AWG Cable | NA                                   | NA  | NA                                | NA  | 26.0 (QSFP224 end)x2                  | 3m/2.5m                     | 0-70                   |
| Active Copper Cable (ACC)      |                                    |                      |                       |                       |                                      |     |                                   |     |                                       |                             |                        |
| 800G                           | OSFP112 ACC                        | ACC                  | 30AWG Cable           | 30AWG Cable           | NA                                   | NA  | NA                                | NA  | ~1.5 (OSFP112 end)x2                  | 3m                          | 0-70                   |
| 1.6T                           | OSFP112 ACC                        | ACC                  | 26AWG Cable           | 26AWG Cable           | NA                                   | NA  | NA                                | NA  | ~2.5 (OSFP112 end)x2                  | 2.5m                        | 0-70                   |
| Direct Attach Cable (DAC)      |                                    |                      |                       |                       |                                      |     |                                   |     |                                       |                             |                        |
| 200G                           | QSFP56 DAC                         | DAC                  | 26AWG Cable           | 26AWG Cable           | NA                                   | NA  | NA                                | NA  | ~0                                    | 2.5m                        | 0-70                   |
| 400G                           | QSFP112 DAC                        | DAC                  | 26AWG Cable           | 26AWG Cable           | NA                                   | NA  | NA                                | NA  | ~0                                    | 2m                          | 0-70                   |
| 800G                           | QSFP112 DAC                        | DAC                  | 26AWG Cable           | 26AWG Cable           | NA                                   | NA  | NA                                | NA  | ~0                                    | 2m                          | 0-70                   |
| 1.6T                           | OSFP224 DAC                        | DAC                  | 26AWG Cable           | 26AWG Cable           | NA                                   | NA  | NA                                | NA  | ~0                                    | 1m                          | 0-70                   |