

PASSPORT DATA SHEET

Single Fiber CWDM SFP



Champion ONE's single fiber or bi-directional (bidi) CWDM transceivers can serve as a direct replacement for dual-fiber SFP CWDM optics. These "hi-lo" optics transmit and receive on wavelengths just above and below the standard CWDM wavelengths. With these optics, you can add up to 8 working services without running new fiber, thereby reducing your fiber installation or lease costs and optimizing your fiber plant.

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

Technical Specifications

STANDARDS AND REGULATORY COMPLIANCE

RoHS compliant
SFP MSA (mutli-source agreement)
IEEE Std 802.3
Fibre Channel Draft Physical Interface Specification
Compliant with SONET/SDH optical standards

PROTOCOLS AND DATA RATES

20km

Gigabit Ethernet (1.25 Gbps)
2G Fibre Channel
CPRI Line Rate Option 3 (2.457Gbps)
SONET OC-48

40km

Gigabit Ethernet (1.25 Gbps)
1G Fibre Channel
CPRI Line Rate Option 3
(1.229Gbps)

CONNECTOR

Simplex LC connector

WARRANTY

All feature a limited 5-year warranty

NOTES

Available "temperature-hardened" (-40 to 85° C)

| C1 Part Number | Center Wavelengths (nm) | Fiber Type | Rated Distance (km) | Temp Range (°C) | Description | Output Power (min/max) (dBm) | Receiver Sensitivity (dBm) | Max. Input Power (dBm) |
|--|--|------------|---------------------|-----------------|--|------------------------------|----------------------------|------------------------|
| SONET OC-48 (2.488 GBPS) / 2G FIBRE CHANNEL / 1G ETHERNET/CPRI LINE RATE OPTION 3 | | | | | | | | |
| 2500SFP47xB20L-H | 1467Tx/1476Rx (x = L) 1476Tx/1467Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP, 1470nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP49xB20L-H | 1487Tx/1496Rx (x = L) 1496Tx/1487Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP , 1490nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP51xB20L-H | 1507Tx/1516Rx (x = L) 1516Tx/1507Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP , 1510nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP53xB20L-H | 1527Tx/1536Rx (x = L) 1536Tx/1527Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP , 1530nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP55xB20L-H | 1547Tx/1556Rx (x = L) 1556Tx/1547Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP , 1550nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP57xB20L-H | 1567Tx/1576Rx (x = L) 1576Tx/1567Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP , 1570nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |

| C1 Part Number | Center Wavelengths (nm) | Fiber Type | Rated Distance (km) | Temp Range (°C) | Description | Output Power (min/max) (dBm) | Receiver Sensitivity (dBm) | Max. Input Power (dBm) |
|----------------|-------------------------|------------|---------------------|-----------------|-------------|------------------------------|----------------------------|------------------------|
|----------------|-------------------------|------------|---------------------|-----------------|-------------|------------------------------|----------------------------|------------------------|

SONET OC-48 (2.488 GBPS) / 2G FIBRE CHANNEL / 1G ETHERNET/CPRI LINE RATE OPTION 3


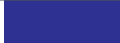

| | | | | | | | | |
|------------------|--|-----|----|-----------|---|---------|-----|---|
| 2500SFP59xB20L-H | 1587Tx/1596Rx (x = L) 1596Tx/1587Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP, 1590nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |
| 2500SFP61xB20L-H | 1607Tx/1616Rx (x = L) 1616Tx/1607Rx (x = H) | SMF | 20 | -40 to 85 | Multi-rate CWDM SF SFP, 1610nm H or L, 20km rated, I-temp | -4 to 1 | -19 | 1 |

GIGABIT ETHERNET (1.25 GBPS) / 1G FIBRE CHANNEL

| | | | | | | | | |
|------------------|--|-----|----|-----------|---|---------|-----|---|
| 1000SFP47xB40L-H | 1467Tx/1476Rx (x = L) 1476Tx/1467Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1470nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP49xB40L-H | 1487Tx/1496Rx (x = L) 1496Tx/1487Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1490nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP51xB40L-H | 1507Tx/1516Rx (x = L) 1516Tx/1507Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1510nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP53xB40L-H | 1527Tx/1536Rx (x = L) 1536Tx/1527Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1530nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP55xB40L-H | 1547Tx/1556Rx (x = L) 1556Tx/1547Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1550nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP57xB40L-H | 1567Tx/1576Rx (x = L) 1576Tx/1567Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1570nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP59xB40L-H | 1587Tx/1596Rx (x = L) 1596Tx/1587Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1590nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |
| 1000SFP61xB40L-H | 1607Tx/1616Rx (x = L) 1616Tx/1607Rx (x = H) | SMF | 40 | -40 to 85 | 1GbE/1G FC CWDM SF SFP, 1610nm H or L, 40km rated, I-temp | -4 to 1 | -22 | 1 |

MULTI-RATE CPRI LINE RATE OPTION 3 (622M-2.5G)/GIGABIT ETHERNET

| | | | | | | | | |
|-----------------|--|-----|----|-----------|---|---------|-----|----|
| MR-SFP47xB40L-H | 1467Tx/1476Rx (x = L) 1476Tx/1467Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1470nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP49xB40L-H | 1487Tx/1496Rx (x = L) 1496Tx/1487Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1490nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP51xB40L-H | 1507Tx/1516Rx (x = L) 1516Tx/1507Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1510nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP53xB40L-H | 1527Tx/1536Rx (x = L) 1536Tx/1527Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1530nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP55xB40L-H | 1547Tx/1556Rx (x = L) 1556Tx/1547Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1550nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP57xB40L-H | 1567Tx/1576Rx (x = L) 1576Tx/1567Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1570nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP59xB40L-H | 1587Tx/1596Rx (x = L) 1596Tx/1587Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1590nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |
| MR-SFP61xB40L-H | 1607Tx/1616Rx (x = L) 1616Tx/1607Rx (x = H) | SMF | 40 | -40 to 85 | Multi-Rate CWDM SF SFP, 1610nm H or L, 40km rated, I-temp | -2 to 3 | -24 | -7 |

| Wavelength | Color | |
|------------|--------|---|
| 1470nm | Gray |  |
| 1490nm | Violet |  |
| 1510nm | Blue |  |
| 1530nm | Green |  |

| Wavelength | Color | |
|------------|--------|---|
| 1550nm | Yellow |  |
| 1570nm | Orange |  |
| 1590nm | Red |  |
| 1610nm | Brown |  |