

TECHNICAL DATA

REFERENCE SUMMARY

PRODUCTS CATEGORY

X2

- Dual Fiber Strands X2 Modules
- CWDM Dual Fiber Strands X2 Modules
- DWDM Dual Fiber Strands X2 Modules

DESCRIPTION

X2 is a standardized form factor for 10 Gb/s fiber optics transponders. X2 transponders are used in datacom optical links, primarily 10G Ethernet.

PRODUCTS



FEATURES

- Data Rates: 10Gbps
- Compatible with X2 MSA Rev2.0b
- Compliant with 802.3ae 10GBASE-LR at 10.3125Gbps
- Hot Pluggable 70-PIN Connector with XAUI Electrical Interface
- Management and control via MDIO 2-wire interface
- Power Supply:+3.3VAPS(+1.2V)
- Diagnostic Optics Monitoring
- Temperature Range:0-70°C
- Dual Fiber Strands X2 Modules
- CWDM Dual Strands X2 Modules
- C Band DWDM Dual Fiber Strands X2 Module

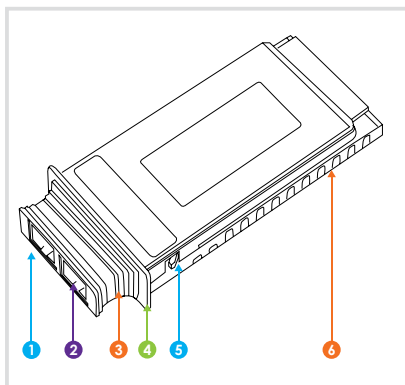
APPLICATIONS

- Supports 10G Ethernet 10.312Gbps application
- Other 10Gbps Ethernet Transmission System

SPECIFICATIONS

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| | |
|-------------------|--|
| Standards | IEEE 802.3z 1000BASE-SX; 1000BASE-LX |
| Dimensions | 1.4" [36 mm] Depth: 3.5" [91 mm] Height: 0.50" [13 mm] |
| Power | 5V |
| Power Consumption | 0.8 Watts |
| Connector Type | SC |
| Environment | 0°C – 70°C |
| Compliance | UL Registered, CSA, IEC 60825-1 and IEC |
| Warranty | 2 year |



| | | | |
|---|-----------------------|---|-----------------------|
| 1 | Transmit optical bore | 4 | EMI gasket flange |
| 2 | Receive optical bore | 5 | Latch |
| 3 | Latching sleeve | 6 | Transceiver heat sink |

- Dual Fiber Strands X2 Module
- CWDM Dual Fiber Strands X2 Module
- C-Band DWDM Dual Fiber Strands X2 Module

Dual Fiber Strands X2 Modules

| DateRate | Part Number | Type | Wavelength | Distance (km) | TX Power (dBm) | RX Sens. (dBm) | Fiber Budget (dB) |
|----------|-------------|------|------------|---------------|----------------|----------------|-------------------|
| 10 Gb/s | SV-X2-SR | MM | 850nm | 0.3 | -6.5 to -1 | -9.9 to -1 | 3.4 |
| | SV-X2-ESR | MM | 1300nm | 0.2 | -4.5 to 1.5 | -6.5 to 1.5 | 2 |
| | SV-X2-LR1 | SM | 1310nm | 10 | -8.2 to 0.5 | -12.6 to 0.5 | 4.4 |
| | SV-X2-ER4 | SM | 1550nm | 40 | 1 to 2 | -15.8 to -1 | 14.8 |
| | SV-X2-ZR8 | SM | 1550nm | 80 | 0 to 4 | -27 to -7 | 27 |

CWDM Dual Fiber Strands X2 Modules

| DateRate | Part Number | Type | Wavelength | Distance (km) | TX Power (dBm) | RX Sens. (dBm) | Fiber Budget (dB) |
|----------|--------------|------|-----------------|---------------|----------------|----------------|-------------------|
| 10 Gb/s | SV-X2-ER4C## | SM | 1470nm ~ 1610nm | 40 | -1 to 2 | -15.8 to -1 | 12 |
| | SV-X2-ZR8C## | SM | 1470nm ~ 1610nm | 80 | 0 to 4 | -24 to -7 | 24 |

Available with option of No DDM ## denotes wavelength range from 1270~1610nm.

27 = 1270nm, 29=1290nm, 31=1310nm, 33=1330nm, 35=1350nm, 37=1370nm, 39=1390nm, 41=1410nm, 43=1430nm, 45=1450nm, 47=1470nm, 49=1490nm, 51=1510nm, 53=1530nm, 55=1550nm,57=1570nm, 59=1590nm, 61=1610nm

C-Band DWDM Dual Fiber Strands X2 Modules

| DateRate | Part Number | Type | Wavelength | Distance (km) | TX Power (dBm) | RX Sens. (dBm) | Fiber Budget (dB) |
|----------|--------------|------|-----------------|---------------|----------------|----------------|-------------------|
| 10 Gb/s | SV-X2-ER4D## | SM | DWDM Wavelength | 40 | -1 to 2 | -15.8 to -1 | 14.8 |
| | SV-X2-ER8D## | SM | DWDM Wavelength | 80 | 0 to 4 | -24 to -7 | 24 |

denotes DWDM Wavelength Guide