

# SFP-25G-BX10-SY

## 25GBASE-BIDI LR SFP28, 10 km SMF TRANSCEIVER

### 1. FEATURES AND SPECIFICATIONS

- ▶ Form Factor: **SFP28**
- ▶ Operating Data Rate: **25G**
- ▶ Protocol(s): **25GE**
- ▶ Fiber Type: **SMF**
- ▶ Technique: **BIDI LR**
- ▶ Lane Count: **1**
- ▶ Wavelength(s)/Channel(s): **U: Tx1270 nm/Rx1330 nm**  
**D: Tx1330 nm/Rx1270 nm**
- ▶ Nominal Distance: **10 km**
- ▶ Nominal Power Budget: **13 dB**
- ▶ Connector: **LC simplex**
- ▶ Temperature Range: **0 to +70°C, -40 to +85°C**
- ▶ Compliance: **SFP+ MSA, SFF-8472**
- ▶ Monitoring: **Digital diagnostic monitor interface**
- ▶ Laser Type: **DFB**
- ▶ Receiver Type: **PIN**
- ▶ Power Dissipation: **1.5 W**

### 2. ABSOLUTE CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SIGNAL INPUT VOLTAGE	$V_{IN}$	0.2	-	0.9	V
POWER SUPPLY VOLTAGE	$V_{CC}$	-0.5	-	4.5	V
OPERATING TEMPERATURE	$T_{CASE}$	0	-	+70	°C
STORAGE TEMPERATURE	$T_S$	-40	-	+85	°C

### 3. ELECTRICAL OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY CURRENT	$I_{CC}$	-	-	0.4	A
SUPPLY VOLTAGE	$V_{CC}$	3.13	3.3	3.47	V

### 4. OPTICAL CHARACTERISTICS

#### RECEIVER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	
OPTICAL WAVELENGTH	$\lambda_C$	U-2733	1320	1330	1340	nm
		D-3327	1260	1270	1280	
LOS HYSTERESIS	$LOS_H$	0.5	-	0	dB	
LOS ASSERT	$LOS_A$	-30	-	-	dBm	
LOS DE-ASSERT	$LOS_D$	-	-	-15	dBm	
RX MAX. SENSITIVITY	$P_{MIN}$	-	-	-18	dBm	
DAMAGE THRESHOLD	$P_{MAX}$	2	-	-	dBm	

#### TRANSMITTER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	
OPTICAL WAVELENGTH	$\lambda_C$	U-2733	1260	1270	1280	nm
		D-3327	1320	1330	1340	
OPTICAL EXTINCTION RATIO	ER	3.5	-	-	dB	
SIDE MODE SUPPRESSION RATIO	SMSR	30	-	-	dBm	
SPECTRAL WIDTH	$\Delta\lambda$	-	-	1	dBm	
OPTICAL TRANSMIT POWER	$P_{OUT}$	-5	-	2	dBm	

## 5. ORDERING INFORMATION

PART NAME	DESCRIPTION
SFP-25G-BX10U-SY	25GBase BIDI LR SFP28, Tx1270 nm/Rx1330 nm, 10 km over SMF, LC simplex, speedy
SFP-25G-BX10U-I-SY	25GBase BIDI LR SFP28, Tx1270 nm/Rx1330 nm, 10 km over SMF, LC simplex, Industrial temperature -40 to +85°C, speedy
SFP-25G-BX10D-SY	25GBase BIDI LR SFP28, Tx1330 nm/Rx1270 nm, 10 km over SMF, LC simplex, speedy
SFP-25G-BX10D-I-SY	25GBase BIDI LR SFP28, Tx1330 nm/Rx1270 nm, 10 km over SMF, LC simplex, Industrial temperature -40 to +85°C, speedy

## 6. COMPATIBILITY

MSA (SFP-25G-BX10D, SFP-25G-BX10U), CISCO SYSTEMS (SFP-25G-LR-S), DELL (407-BBWK), EXTREME (10504), GRASSVALLEY (SFP-25G-BXD-I, SFP-25G-BXU-I), JUNIPER (JNP-SFP-25G-LR), MIKROTIK (XS+31LC10D), NOKIA/ALCATEL-LUCENT (3HE15378AA, 3HE15378AB), NVIDIA/MELLANOX (MMA2L20-AR), UBIQUITI NETWORKS (UF-SM-25G), ARISTA (25GBASE-LR)

## 7. WARNINGS AND SECURITY INFORMATION



CAUTION: Class 1 visible laser radiation present. Long term viewing of the laser can be harmful to the human eye.



This equipment has been tested according to European legislation and has been found safe, non-intervening with other electronic devices and is not subject to interference from other electronic devices



Hazardous Goods; our products are fully compliant with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Laser Class 1

Our products comply with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007



Only (dis)connect the transceivers in an ESD Protected Area while using certified equipment and taking all necessary precautions as specified in IEC 61340-5-1.

## 8. DISCLAIMER AND LEGAL NOTICES

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