() BROADSTICK

Broadstick Transceiver 1G BIDI SFP 1310/1490nm for Huawei

BS1GBDUHWCLX: Tx1310nm / Rx1490nm 10Km **BS1GBDDHWCLX**: Tx1490nm / Rx1310nm 10Km

Broadstick provides Huawei compatible transceivers that meet the industry standards. All transceivers are **standards-based and comply with the MSA.**





Form Type	Bidi SFP	Max Distance	10km
Wavelength	1310/1490	Туре	Standard
Interface	LC Simplex	Speed	1Gbps
Compatible	Huawei	Temp Range	0 to 70 ºC

These transceivers are manufactured using the best quality components available. Our commitment to quality means we produce a consistent, standardized product, purpose-built for compatibility with today's top Original Equipment Manufacturer (OEM) specifications.

Our factory has the ISO 9001 certification and our devices are tested in fabric.



The installation a Broadstick transceiver does not affect your network equipment warranty. The equipment manufacturers have all the guidelines stating that warranty support on their products and it will not be affected.

Remember that Installing an OEM transceiver does not affect your network equipment warranty. The equipment manufacturers have all the guidelines stating that warranty support on their products and it will not be affected. This transceivers are compatible the use of it do not affect the CPU of the equipment and will not affect the Network performance.

For more information please contact sales@broadstick.com

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Broadstick provides common distance ranges within each transceiver model:

- SX/SR Short hauls with a range up to 2km.
- LX/LR Long hauls with a range up to 10km. We are also able to provide long haul with enhanced lasers capable of 40km.
 EX/ER Extended reaches with range up to 40km with GBIC/SFP as well as with 10Gb/s transceivers.
- ZX/ZR/EZX Extended reach with range up to 120km with GBIC/SFP and 80km with 10Gb/s transceivers

Our devices and factories have passed many quality system verifications, like CE, RoHS, FCC, that compliant with international quality standards that assure the production. We strictly implement the standardized management to control the design, production, and service.

CE FCC

Broadstick provides custom SFP fully compatible transceivers that meet the industry standards. All transceivers are standards based and comply with the MSA. The part number of one SFP transceiver can be constructed with the next table. Use as reference the part number **BS1GSFPHWCLX** to request a 1G SFP 1310nm 10Km for a HUAWEI equipment transceiver.

Broadstick	Bandwidth	Form			Brand		Туре	
BS Broadstick	1M 100M	SFP	SFP		CIS	Cisco	SX	850nm 550mts
	1G 1G	BDU	BIDI UP		JUN	Juniper	LH	1310nm 10Km SM and MM
		BDD	BIDI DOWN		HPE	НР	LX	1310nm 10Km
				_	FGT	Fortigate	LX2	20Km
					HWI	Huawei	EX	40Km
	1				DEL	Dell	ZX	80Km
		BSIGSFP. 1GSFP85	JUNSX Dum 550m ts JUN		ALC	Alcatel	ZX2	100Km
	PBRUADSTICK	S/N: 0002.	378782		xxx	CUSTOM	RJ	RJ45 100mts
							Custom	ххх

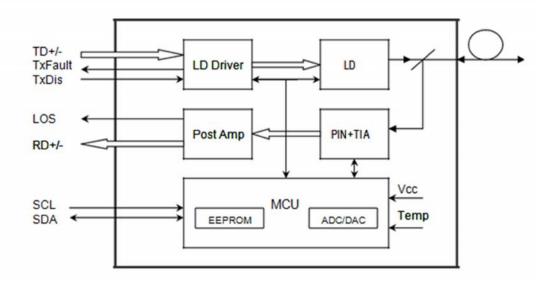
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The SFP transceivers are high performance modules supporting dual data-rate of 1.25Gbps/1.0625Gbps and 20km transmission distance with SMF.

The transceiver consists of three sections: a FP laser transmitter, a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy class I laser safety requirements.

The transceivers are compatible with SFP Multi-Source Agreement (MSA) and SFF-8472.



Absolute Maximum Ratings

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vcc	-0.5	4.5	V
Storage Temperature	TS	-40	+85	°C
Operating Humidity	-	5	85	%

Recommended Operating Conditions

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case Temperature	ТС	0		+70	°C
Power Supply Voltage	Vcc	3.13	3.3	3.47	V
Power Supply Current	lcc			300	mA
Data Rate		1.063	1.25		Gbps

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Optical and Electrical Characteristics

Parameter		Symbol	Min	Typical	Max	Unit	NOTES
	Tra	nsmitter					
Centre Wavelength			1470	1490	1510	nm	
Spectral Width	(RMS)	Δλ			1	nm	
Side Mode Suppres	sion Ratio	SMSR	30			dB	
Average Output	Power	Pout	-9		0	dBm	1
Extinction R	atio	ER	9			dB	
Optical Rise/Fall Time	e (20%~80%)	tr/tf			0.26	ns	
Data Input Swing D	ifferential	Vin	400		1800	MV	2
Input Differential I	Input Differential Impedance		90	100	110	Ω	
Tx Disable	Disable		2		Vcc	V	
Tx Fault	Enable		0		0.8	V	
Tx Disable	Fault		2		Vcc	V	
Tx Fault	Normal		0		0.8	V	
	Re	eceiver		1			
Centre Wavel	ength	λς	1260	1310	1360	nm	
Receiver Sen	sitivity				-23	dBm	3
Receiver Overload			-3			dBm	3
LOS De-Assert		LOS₽			-24	dBm	
LOS Assert		LOSA	-30				
LOS Hysteresis			1		4	dBm	
Data Output Swing Differential		Vout	400		1800	mV	4
LOS		High	2		Vcc	Ω	
103	LOS				0.8	V	

Notes:

The optical power is launched into SMF.
PECL input, internally AC-coupled and terminated.
Measured with a PRBS 2⁷-1 test pattern @1250Mbps, BER 1×10⁻¹².
Internally AC-coupled.

Diagnostics

Parameter	Range	Unit	Accuracy	Calibration
Temperature	0 to +70	°C	±3°C	Internal / External
Voltage	3.0 to 3.6	V	±3%	Internal / External
Bias Current	0 to 100	mA	±10%	Internal / External
TX Power	-9 to 0	dBm	±3dB	Internal / External
RX Power	-23 to -3	dBm	±3dB	Internal / External

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