

Broadstick Transceivers 1G SFP SX 850nm 550m for Cisco



BS1GSFPCISSX

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



FormType	SFP	Max Distance	550 mts
Wavelength	850nm	DomSupport	Yes
Interface	LC duplex	Speed	1Gbps
Tx Power	-9db to -0db	Rx Sensitive	-11db
Compatible	Cisco	TempRange	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:

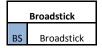
- SX/SR Short hauls with a range up to 2km.
- LX/LR Long hauls with a range up to 10km. We are also able to provide long haul with enhanced lasers capable of 40km.
 - EX/ER Extended reaches with range up to 40km with GBIC/SFP as well as with 10Gb/s transceivers.
- ZX/ZR/EZX Extended reach with range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





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 **BS1GSFPCISSX** to request a 1G SFP 850nm 550m for a CISCO equipment transceiver.





Form Type				
SFP	SFP+			
XFP	XFP XFP			
BDU	BIDI SFP+ UP			
BDD	BIDI SFP+ DOWN			



Brand					
CIS Cisco					
JUN	Juniper				
HPE	НР				
FGT	Fortigate				
HWI	Huawei				
DEL	Dell				
ALC	Alcatel				
XXX	CUSTOM				

Distance					
SR 850nm 300mts					
LR	1310nm 10Km				
LR2	20Km				
ER	40Km				
ZR	80Km				
ZR2	100Km				
RJ	RJ45 100mts				
Custom	XXX				

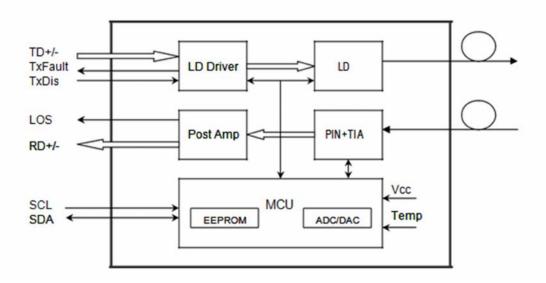
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The SFP transceivers are high performance modules supporting dual data-rate of 1.25Gbps/1.0625Gbps and 550mts transmission distance with MMF.

The transceiver consists of three sections: a FP laser transmitter, a PIN photodiode integrated with a transimpedance 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	TC	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
Transmitter							110120
Centre Wavel	ength	λς	830	850	870	nm	
Spectral Width	(RMS)	Δλ			4	nm	
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	mpedance	Zn	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					
Centre Wavel	ength	λς	830	850	870	nm	
Receiver Sen	sitivity				-23	dBm	3
Receiver Ove	rload		-3			dBm	3
LOS De-Assert		LOSD			-24	dBm	
LOS Assert		LOSA	-36				
LOS Hysteresis			1		4	dBm	
Data Output Swing Differential		Vout	370		1800	mV	4
LOS		High	2		Vcc	Ω	
203	LOS				0.8	V	

Notes:

- 1. The optical power is launched into MMF.
- 2. PECL input, internally AC₇coupled and terminated.
 3. Measured with a PRBS 2⁷-1 test pattern @1250Mbps, BER 1×10⁻¹².
- 4. Internally AC-coupled.

Diagnostics

Diagnostics Specification

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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