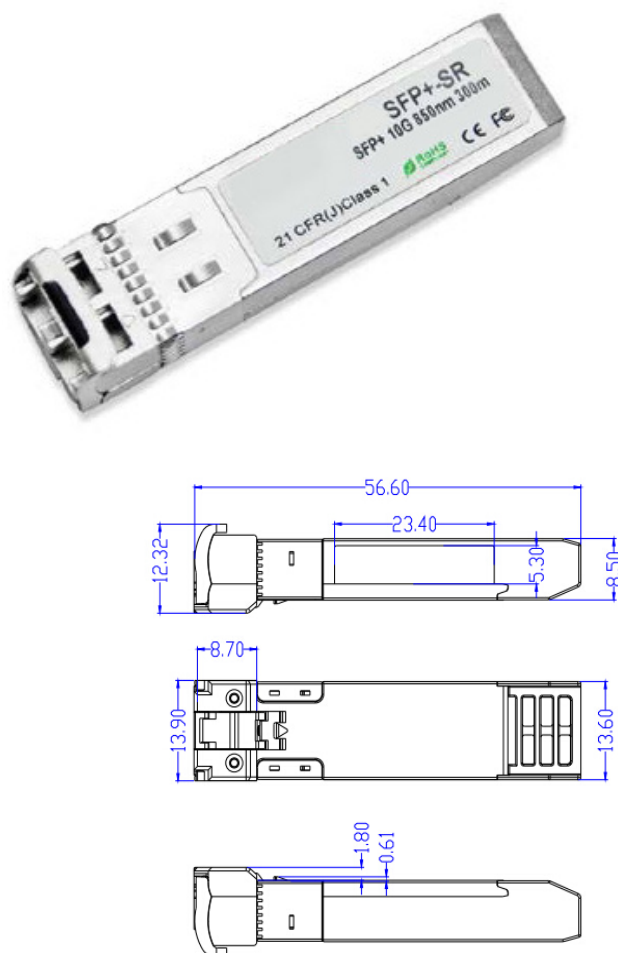




Fibre Optic Active

SFP+ 10GB Multimode MM 300m



Product Description

Briticom® Small Form-Factor Pluggable (SFP) Fibre Optic Transceivers are used to interface networking devices to fibre or copper networking cables in Telecom and data applications.

Features & Benefits

- Optical interface compliant to IEEE 802.3ae 10GBASE-SR
- Electrical interface compliant to SFF-8431
- Hot Pluggable
- 850nm VCSEL transmitter, PIN photo-detector
- Maximum link length of 300m on 2000MHz/km MMF
- Operating case temperature:
- Commercial: 0 to 70 °C , Industrial: -40 to 85 °C
- All-metal housing for superior EMI performance
- Advanced firmware allow customer system encryption information to be stored in transceiver
- Cost effective SFP+ solution, enables higher port densities and greater bandwidth

Applications & Standards

- 10GBASE-SR at 10.3125Gbps
- 10GBASE-SW at 9.953Gbps
- Other optical links
- Compliant to IEEE 802.3ba
- Compliant to SFF-8436
- RoHS Compliant

Recommended Operating Conditions

PARAMETER	SYMB	MIN	TYP.	MAX	UNIT
Case Operating Temperature	Tc	0	25	70	°C
Power Supply Voltage	VCC	3.135	3.300	3.465	V

Recommended Operating Environment

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT
Power Supply Voltage	Vcc	3.135	3.300	3.465	V
Operating Case Temperature	Tc	0	25	70	°C

To Order

To place an order, use the contact details below.



Optical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT	NOTE
Transmitter						
Center Wavelength	λ_t	840	850	860	nm	
Spectral Width (RMS)	Pm	-	-	Note 1	nm	
Average Optical Power	Pavg	-6.5	-	-0.5	dBm	2
Extinction Ratio	ER	3.5	-	-	dB	3
Transmitter Dispersion Penalty	TDP	-	-	3.9	dB	
Relative Intensity Noise	Rin	-	-	-128	dB/Hz	12dB reflection
Optical Return Loss		-	-	12	dB	
Receiver						
Center Wavelength	λ_r	840	850	860	nm	
Receiver Sensitivity	Psens	-		-11.1	dBm	4
Stressed Sensitivity in OMA		-		-7.5	dBm	4
Los function	Los	-30		-12	dBm	
Overload	Pin	-		-1.0	dBm	4
Receiver Reflection		-		-12	dB	

Notes

Note 1. Trade-offs are available between spectral width, center wavelength and minimum OMA, as shown in table 6.

2. The optical power is launched into MMF

3. Measured with a PRBS 231-1 test pattern @10.3125Gbps

4. Measured with a PRBS 231-1 test pattern @10.3125Gbps, BER≤10⁻¹².

Electrical Characteristics

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNIT	NOTE
Data Rate		-	10.3125	-	Gbps	
Power Consumption		-	600	800	mW	
Transmitter						
Single Ended Output Voltage Tolerance		-0.3	-	4.0	V	
C common mode voltage tolerance		15	-	-	mV	
Tx Input Diff Voltage	VI	180	-	1200	mV	
Tx Fault	VoL	-0.3	-	0.4	V	At 0.7mA
Data Dependant Input Jitter	DDJ	-	-	0.10	UI	
Data Input Total Jitter	TJ	-	-	0.28	UI	
Receiver						
Single Ended Output Voltage Tolerance		-0.3	-	4.0	V	
Rx Output Diff Voltage	Vo	300	-	850	mV	
Rx Output Rise and Fall Time	Tr/Tf	30	-	-	ps	20% to 80%
Total Jitter	TJ	-	-	0.70	UI	
Deterministic Jitter	DJ	-	-	0.42	UI	

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Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Product		Type		Coding Type*	
SFP	SFP	RJ	RJ45	CIS	Cisco
XFP	XFP	SM	Single-mode	HP	HP
QSFP	QSFP	MM	Multimode	JP	Juniper
SFP+	SFP+	BIDI	Bi-Directional	EX	Extreme
		WDM	WDM		Leave empty if no coding
		DDMI	DDMI		
		DWDM	DWDM		
		CWDM	CWDM		
⬆		⬆		⬆	
SFP+	GX	MM	300	CIS	
⬇		⬇			
100M	ET	100m	100		
1GB	G1	300m	300		
2GB	G2	500m	500		
5GB	G5	2km	2		
6GB	G6	10km	10		
10GB	GX	20km	20		
20GB	G2X	40km	40		
40GB	G4X	80km	80		
100GB	GXX	120km	120		
Speed		Distance			

*Leave column blank if no coding

Example Part Number	
Description	Part Number
SFP+ 40GB Multimode 100m Cisco	SFPPG4XMM100CIS

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