

Fast Ethernet SFP Transceivers

AFL offer a comprehensive range of Fast Ethernet (FE) fibre and copper SFP (Small Form-factor Pluggable) transceivers for use in telecom and data communication networks. SFP's interface the electrical communication device to the physical cabling medium and are available in Ethernet or SONET/SDH and support data rates up to 100 Mbps (Ethernet). AFL SFP's include Digital Diagnostics Monitoring (DDM) which allows monitoring of parameters such as power, temperature and voltage.

Features

- Data rate up to 100 Mbps
- Up to 200 km transmission distance
- Operating case temperature: 0 to +70°C or industrial temperature rated version: -40 to +85°C
- Digital Diagnostic Monitoring

Applications

- Switch and router connectivity
- Media Conversion
- Fast Ethernet
- LAN and SAN connectivity
- SONET/SDH Network

Specifications

PART NUMBER	OUTPUT POWER (DBM)		RECEIVE SENSITIVITY (DBM)	LINK BUDGET (DBM)	RECEIVE OVERLOAD (DBM)
	Min	Max			
SFP-85-FE-0.55-C-D	-9.5	-4	-18	8.5	-3
SFP-31-FE-2-C-D	-19	-14	-30	11	-5
SFP-31-FE-10-C-D	-15	-8	-28	13	-8
SFP-31-FE-40-C-D	-5	0	-34	29	-10
SFP-55-FE-80-C-D	-5	0	-34	29	-10
SFP-55-FE-120-C-D	0	5	-34	34	-10
SFP-55-FE-160-C-D	2	7	-35	37	-10
SFP-55-FE-200-C-D	2	7	-45	47	-10

Ordering Information

PART NUMBER	DESCRIPTION
SFP-85-FE-0.55-C-D	SFP 100Base-SX, 850 nm, FE 550M, -0°C - +70°C, DDM
SFP-31-FE-2-C-D	SFP 100Base-LX, 1310 nm, FE 2km, -0°C - +70°C, DDM
SFP-31-FE-10-C-D	SFP 100Base-LX, 1310 nm, FE 10km, -0°C - +70°C, DDM
SFP-31-FE-40-C-D	SFP 100Base-EX, 1310 nm, FE 40km, -0°C - +70°C, DDM
SFP-55-FE-80-C-D	SFP 100Base-ZX, 1550 nm, FE 80km, -0°C - +70°C, DDM
SFP-55-FE-120-C-D	SFP 100Base-EZX, 1550 nm, FE 120km, -0°C - +70°C, DDM
SFP-55-FE-160-C-D	SFP 100Base-EZX, 1550 nm, FE 160km, -0°C - +70°C, DDM
SFP-55-FE-200-C-D	SFP 100Base-EZX, 1550 nm, FE 200km, -0°C - +70°C, DDM

Contact AFL for vendor specific coded transceivers.
Industrial Temperature Rated (-40°C to +85°C) available.

Bidirectional SFP Transceivers

Bidirectional SFP transceivers operate in uplink and downlink pairs. Uplink SFP's transmit at 1310 nm and receive at 1550 nm while its paired downlink transmits at 1550 nm and receives at 1310 nm. Bidirectional SFP's have a single interface and communicate bidirectionally over a single fibre.

Features

- Data rates up to 100 Mbps
- Up to 80 km transmission distance
- Digital Diagnostic Monitoring
- Operating case temperature range of 0°C to +70°C or industrial temperature rated -40°C to +85°C

Applications

- Switch and router connectivity
- Media Conversion
- Fast Ethernet
- LAN and SAN connectivity
- SONET/SDH Network

Specifications

PART NUMBER	OUTPUT POWER (DBM)		RECEIVER SENSITIVITY (DBM)	LINK BUDGET (DBM)	RECEIVER OVERLOAD (DBM)
	Min	Max			
SFPB-3155-FE-2-C-D / SFPB-5531-FE-2-C-D	-20	-10	-30	10	-8
SFPB-3155-FE-10-C-D / SFPB-5531-FE-10-C-D	-15	-8	-29	14	-8
SFPB-3155-FE-40-C-D	-5	0	-34	29	-10
SFPB-5531-FE-40-C-D	-8	-3	-34	26	-10
SFPB-3155-FE-80-C-D / SFPB-5531-FE-80-C-D	0	5	-34	34	-10

Ordering Information

PART NUMBER	DESCRIPTION
SFPB-3155-FE-2-C-D	SFP BIDI 100Base-BX-U, 1310/1550 nm, FE 2 km, -0°C - +70°C, DDM, SC
SFPB-5531-FE-2-C-D	SFP BIDI 100Base-BX-D, 1550/1310 nm, FE 2 km, -0°C - +70°C, DDM, SC
SFPB-3155-FE-10-C-D	SFP BIDI 100Base-BX-U, 1310/1550 nm, FE 10 km, -0°C - +70°C, DDM, SC
SFPB-5531-FE-10-C-D	SFP BIDI 100Base-BX-D, 1550/1310 nm, FE 10 km, -0°C - +70°C, DDM, SC
SFPB-3155-FE-40-C-D	SFP BIDI 100Base-BX-U, 1310/1550 nm, FE 40 km, -0°C - +70°C, DDM, SC
SFPB-5531-FE-40-C-D	SFP BIDI 100Base-BX-D, 1550/1310 nm, FE 40 km, -0°C - +70°C, DDM, SC
SFPB-3155-FE-80-C-D	SFP BIDI 100Base-BX-U, 1310/1550 nm, FE 80 km, -0°C - +70°C, DDM, SC
SFPB-5531-FE-80-C-D	SFP BIDI 100Base-BX-D, 1550/1310 nm, FE 80 km, -0°C - +70°C, DDM, SC

Contact AFL for vendor specific coded transceivers. SC connector supplied as standard, LC connector optional. Industrial Temperature Rated (-40°C to +85°C) available.

Copper SFP

AFL copper SFP's comply with Fast Ethernet and 100Base-T standards as specified in IEEE 802.3-2002 and IEEE 802.3ab, supporting 100 Mbps data-rate up to 100 meters reach over unshielded twisted-pair category 6 cable.

Features

- Up to 100 Mbps bidirectional data links
- Fully metallic enclosure for low EMI
- Access to physical layer IC via 2-wire serial bus
- 10/100 Mbps compliant in host systems with SGMII interface
- Operating case temperature range of 0°C to +70°C (Commercial) or -40°C to +85°C (Industrial)

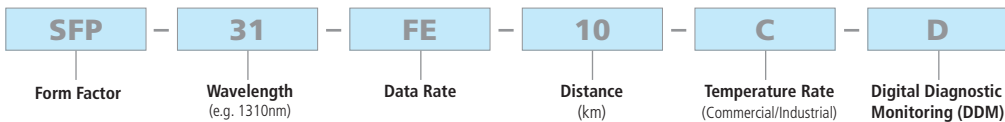
Applications

- Switch and router connectivity
- Media Conversion
- Fast Ethernet
- LAN and SAN connectivity
- SONET/SDH Network

Specifications

PARAMETER	TYPICAL
Line Frequency (MHz)	125
Tx Output Impedance (Ohm)	100
Rx Input Impedance (Ohm)	100

Ordering Information



PART NUMBER	DESCRIPTION
SFP-T-FE	SFP Copper, 100Base-T 100Mbps, -0°C - +70°C
SFP-T-MFE	SFP Copper, 10/100Base-T 10/100Mbps, -0°C - +70°C

Industrial Temperature Rated (-40°C to +85°C) available.