

CWDM & DWDM SFP/SFP+ Transceivers

CWDM & DWDM transceivers are used as part of multiplexed optical networks to deliver high capacity, high bandwidth communication solutions.

AFL's range of CWDM & DWDM transceivers support speeds up to 10 Gbps speeds for both Ethernet and Fibre Channel networks and transmission distances up to 120 km.

CWDM SFP Transceivers

Features

- Data rates up to 1.25 Gbps
- Link budget up to 41 dBm
- Operating case temperature: 0°C to +70°C or industrial temperature rated version: -40°C to +85°C
- Digital Diagnostic Monitoring

Applications

- CWDM / DWDM Multiplexed Networks
- Single Fibre CWDM
- Ethernet, Fibre Channel or SDH / SONET links

Specifications

PART NUMBER	OUTPUT POWER (DBM)		RECEIVE SENSITIVITY (DBM)	LINK BUDGET (DBM)	RECEIVE OVERLOAD (DBM)
	Min	Max			
SFPC-XX-1GE-19-C-D	-5	0	19	-24	-3
SFPC-XX-1GE-24-C-D	0	5	24	-24	-3
SFPC-XX-1GE-28-C-D	0	5	28	-28	-3
SFPC-XX-1GE-34-C-D	2	7	34	-32	-10
SFPC-XX-1GE-41-C-D	4	7	41	-37	-10

Ordering Information

PART NUMBER	DESCRIPTION
SFPC-XX-1GE-19-C-D	SFP CWDM YYY NM, 1GE 19 dB, 0°C-70°C DDM
SFPC-XX-1GE-24-C-D	SFP CWDM YYY NM, 1GE 24 dB, 0°C-70°C DDM
SFPC-XX-1GE-28-C-D	SFP CWDM YYY NM, 1GE 28 dB, 0°C-70°C DDM
SFPC-XX-1GE-34-C-D	SFP CWDM YYY NM, 1GE 34 dB, 0°C-70°C DDM
SFPC-XX-1GE-41-C-D	SFP CWDM YYY NM, 1GE 41 dB, 0°C-70°C DDM

XX = CWDM Wavelength, YYY = Wavelength.
Industrial Temperature Rated (-40°C - +85°C) available.

CWDM SFP+ Transceivers

Features

- Data rates up to 10.5 Gbps
- Link budget up to 23 dBm
- Operating case temperature: 0°C to +70°C
or industrial temperature rated version: -20°C to +75°C
- Digital Diagnostic Monitoring

Applications

- CWDM / DWDM Multiplexed Networks
- Single Fibre CWDM
- Ethernet, Fibre Channel or SDH / SONET links

Specifications

LINK BUDGET (DBM)	WAVELENGTH (MM)	OUTPUT POWER (DBM)		RECEIVE SENSITIVITY (DBM)	RECEIVE OVERLOAD (DBM)
		Min	Max		
10	1270-1330	-5	0	-15	0.5
10	1470-1610	-5	0	-15	0.5
14	1270-1330	-2	3	-16	0.5
14	1470-1610	-1	4	-15	-1
23	1270-1330	2	4	-21	0.5
23	1470-1610	0	4	-23	-8

CWDM Wavelength Guide

CHANNEL	XX	WAVELENGTH (NM)	CHANNEL	XX	WAVELENGTH (NM)
1	27	1270	10	45	1450
2	24	1290	11	47	1470
3	31	1310	12	49	1490
4	33	1330	13	51	1510
5	35	1350	14	53	1530
6	37	1370	15	55	1550
7	39	1390	16	57	1570
8	41	1410	17	59	1590
9	43	1430	18	61	1610

Ordering Information

PART NUMBER	DESCRIPTION
SFP+C-XX-10GE-10-C-D	SFP+ CWDM YYY NM, 10GE 10dB, 0°C-70°C DDM
SFP+C-XX-10GE-14-C-D	SFP+ CWDM YYY NM, 10GE 14dB, 0°C-70°C DDM
SFP+C-XX-10GE-23-C-D	SFP+ CWDM YYY NM, 10GE 23dB, 0°C-70°C DDM

XX = CWDM Wavelength, YYY = Wavelength.
Industrial Temperature Rated (-20°C to +75°C) available.

DWDM SFP Transceivers

Features

- Data rates up to 1.25 Gbps
- Link budget up to 37 dBm
- Operating case temperature: 0°C to +70°C
or industrial temperature rated version: -40°C to +85°C
- Digital Diagnostic Monitoring

Applications

- CWDM / DWDM Multiplexed Networks
- Single Fibre CWDM
- Ethernet, Fibre Channel or SDH / SONET links

Specifications

	OUTPUT POWER (DBM)		RECEIVE SENSITIVITY (DBM)	LINK BUDGET (DBM)	RECEIVE OVERLOAD (DBM)
	Min	Max			
SFPD-XX-1GE-24-C-D	0	5	-24	24	-3
SFPD-XX-1GE-28-C-D	0	5	-28	28	-3
SFPD-XX-1GE-32-C-D	0	5	-32	32	-10
SFPD-XX-1GE-37-C-D	2	5	-35	37	-35

Ordering Information

PART NUMBER	DESCRIPTION
SFPD-XX-1GE-24-C-D	SFP DWDM YYY NM, 1GE 24dB, 0°C-70°C DDM
SFPD-XX-1GE-28-C-D	SFP DWDM YYY NM, 1GE 28dB, 0°C-70°C DDM
SFPD-XX-1GE-32-C-D	SFP DWDM YYY NM, 1GE 32dB, 0°C-70°C DDM
SFPD-XX-1GE-37-C-D	SFP DWDM YYY NM, 1GE 37dB, 0°C-70°C DDM

XX = DWDM Channel, YYY = Wavelength.
Industrial Temperature Rated (-40°C to +85°C) available.

DWDM SFP+ Transceivers

Features

- Data rates up to 10.5 Gbps
- Link budget up to 23 dBm
- Operating case temperature: 0°C to +70°C
or industrial temperature rated version: -20°C to +75°C
- Digital Diagnostic Monitoring

Applications

- CWDM / DWDM Multiplexed Networks
- Single Fibre CWDM
- Ethernet, Fibre Channel or SDH / SONET links

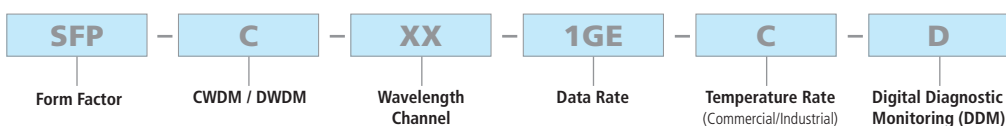
Specifications

PART NUMBER	OUTPUT POWER (DBM)		RECEIVE SENSITIVITY (DBM)	LINK BUDGET (DBM)	RECEIVE OVERLOAD (DBM)
	Min	Max			
SFP+D-XX-10GE-14-C-D	-1	4	-15	14	-1
SFP+D-XX-10GE-23-C-D	0	5	-23	23	-6

DWDM C-Band Wavelength Guide

ITU CHANNEL	FREQUENCY (THZ)	WAVELENGTH	ITU CHANNEL	FREQUENCY (THZ)	WAVELENGTH
15	191.5	1565.50	40	194.0	1545.32
16	191.6	1564.68	41	194.1	1544.53
17	191.7	1563.86	42	194.2	1543.73
18	191.8	1563.05	43	194.3	1542.94
19	191.9	1562.23	44	194.4	1542.14
20	192.0	1561.42	45	194.5	1541.35
21	192.1	1560.61	46	194.6	1540.56
22	192.2	1559.79	47	194.7	1539.77
23	192.3	1558.98	48	194.8	1538.98
24	192.4	1558.17	49	194.9	1538.19
25	192.5	1557.36	50	195.0	1537.40
26	192.6	1556.55	51	195.1	1536.61
27	192.7	1555.75	52	195.2	1535.82
28	192.8	1554.94	53	195.3	1535.04
29	192.9	1554.13	54	195.4	1534.25
30	193.0	1553.33	55	195.5	1533.47
31	193.1	1552.52	56	195.6	1532.68
32	193.2	1551.72	57	195.7	1531.90
33	193.3	1550.92	58	195.8	1531.12
34	193.4	1550.12	59	195.9	1530.33
35	193.5	1549.32	60	196.0	1529.55
36	193.6	1548.51	61	196.1	1528.77
37	193.7	1547.72	60	196.0	1529.55
38	193.8	1546.92	61	196.1	1528.77
39	193.9	1546.12			

Ordering Information



PART NUMBER	DESCRIPTION
SFP+D-XX-10GE-14-C-D	SFP+ DWDM YYY NM, 10GE 14dB, 0°C-70°C DDM
SFP+D-XX-10GE-23-C-D	SFP+ DWDM YYY NM, 10GE 23dB, 0°C-70°C DDM

XX = DWDM Wavelength, YYY = Wavelength. Industrial Temperature Rated (-20°C to +75°C) available.