3.73 Gbps SFP (Small Form-factor Pluggables)

DWDM and CWDM SFPs

For Use in ARRIS Digital Return Path Transmitters with 5 to 42 MHz and 5 to 65 MHz Upstream Bandwidth

Characteristics	Specifications[1]		
DWDM (120 km) SFP Specifications	**Min.**	**Typ.**	**Max.**
Input Differential Impedance, ohm	80	100	120
Data Rate, Gbps	—	3.73	—
Transmitter Differential Input Voltage, mV	500	—	2400
Transmitter Output Power, dBm	4	—	—
Transmitter Extinction Ratio, dB	8.2	—	—
Transmitter Jitter, peak to peak, mUI	—	—	75
Center Wavelength Spacing, GHz	100 (approx. 0.8 nm)	100 (approx. 0.8 nm)	100 (approx. 0.8 nm)
Transmitter Center Wavelength — Start of Life, pm	ITU–25	ITU	ITU+25
Transmitter Center Wavelength — End of Life, pm	ITU–100	ITU	ITU+100
Spectral Width (–20 dB), nm	—	0.2	0.3
Side Mode Suppression Ratio (SMSR), dB	35	—	—
Relative Intensity Noise (RIN), dB/Hz	—	—	–120
CWDM (40 km) SFP Specifications	**Min.**	**Typ.**	**Max.**
Input Differential Impedance, ohm	80	100	120
Receiver Sensitivity, dBm	—	—	–20
Data Rate, Gbps	—	3.7	—
Transmitter Differential Input Voltage, mV	500	—	2400
Transmitter Output Power, dBm	–1	—	5
Transmitter Extinction Ratio, dB	8.2	—	—
Transmitter Jitter, peak to peak, mUI	—	—	75
Center Wavelength Spacing, nm	—	20	—
Spectral Width (–20 dB), nm	—	0.2	0.3
Side Mode Suppression Ratio (SMSR), dB	35	—	—
Relative Intensity Noise (RIN), dB/Hz	—	—	–120
Environmental			
Case Operating Temperature, °C (°F)	–40 to 92 (–40 to 197.6 °F)		
Storage Temperature, °C (°F)	–40 to 92 (–40 to 197.6 °F)		
Storage Relative Humidity, %	5		95

Note:

1. ARRIS provides assurance of digital return link performance only when using an ARRIS supplied SFP.

Technical Specification

SFP Part Numbers and Descriptions

Part Number	Description
DWDM SFP Transmitters (120 km)[1]	
1505605-0015	SFP Environment Hardened 92° C, 120 km, 1565.50 nm LC/PC DWDM Transmitter
1505605-0016	SFP Environment Hardened 92° C, 120 km, 1564.68 nm LC/PC DWDM Transmitter
1505605-0017	SFP Environment Hardened 92° C, 120 km, 1563.86 nm LC/PC DWDM Transmitter
1505605-0018	SFP Environment Hardened 92° C, 120 km, 1563.05 nm LC/PC DWDM Transmitter
1505605-0019	SFP Environment Hardened 92° C, 120 km, 1562.23 nm LC/PC DWDM Transmitter
1505605-0020	SFP Environment Hardened 92° C, 120 km, 1561.42 nm LC/PC DWDM Transmitter
1505605-0021	SFP Environment Hardened 92° C, 120 km, 1560.61 nm LC/PC DWDM Transmitter
1505605-0022	SFP Environment Hardened 92° C, 120 km, 1559.79 nm LC/PC DWDM Transmitter
1505605-0023	SFP Environment Hardened 92° C, 120 km, 1558.98 nm LC/PC DWDM Transmitter
1505605-0024	SFP Environment Hardened 92° C, 120 km, 1558.17 nm LC/PC DWDM Transmitter
1505605-0025	SFP Environment Hardened 92° C, 120 km, 1557.36 nm LC/PC DWDM Transmitter
1505605-0026	SFP Environment Hardened 92° C, 120 km, 1556.56 nm LC/PC DWDM Transmitter
1505605-0027	SFP Environment Hardened 92° C, 120 km, 1555.75 nm LC/PC DWDM Transmitter
1505605-0028	SFP Environment Hardened 92° C, 120 km, 1554.94 nm LC/PC DWDM Transmitter
1505605-0029	SFP Environment Hardened 92° C, 120 km, 1554.13 nm LC/PC DWDM Transmitter
1505605-0030	SFP Environment Hardened 92° C, 120 km, 1553.33 nm LC/PC DWDM Transmitter
1505605-0031	SFP Environment Hardened 92° C, 120 km, 1552.52 nm LC/PCDWDM Transmitter
1505605-0032	SFP Environment Hardened 92° C, 120 km, 1551.72 nm LC/PC DWDM Transmitter
1505605-0033	SFP Environment Hardened 92° C, 120 km, 1550.92 nm LC/PC DWDM Transmitter
1505605-0034	SFP Environment Hardened 92° C, 120 km, 1550.12 nm LC/PC DWDM Transmitter
1505605-0035	SFP Environment Hardened 92° C, 120 km, 1549.32 nm LC/PC DWDM Transmitter
1505605-0036	SFP Environment Hardened 92° C, 120 km, 1548.51 nm LC/PC DWDM Transmitter
1505605-0037	SFP Environment Hardened 92° C, 120 km, 1547.72 nm LC/PC DWDM Transmitter
1505605-0038	SFP Environment Hardened 92° C, 120 km, 1546.92 nm LC/PC DWDM Transmitter
1505605-0039	SFP Environment Hardened 92° C, 120 km, 1546.12 nm LC/PC DWDM Transmitter
1505605-0040	SFP Environment Hardened 92° C, 120 km, 1545.32 nm LC/PC DWDM Transmitter
1505605-0041	SFP Environment Hardened 92° C, 120 km, 1544.53 nm LC/PC DWDM Transmitter
1505605-0042	SFP Environment Hardened 92° C, 120 km, 1543.73 nm LC/PC DWDM Transmitter
1505605-0043	SFP Environment Hardened 92° C, 120 km, 1542.94 nm LC/PC DWDM Transmitter
1505605-0044	SFP Environment Hardened 92° C, 120 km, 1542.14 nm LC/PC DWDM Transmitter
1505605-0045	SFP Environment Hardened 92° C, 120 km, 1541.35 nm LC/PC DWDM Transmitter
1505605-0046	SFP Environment Hardened 92° C,120 km, 1540.56 nm LC/PC DWDM Transmitter
1505605-0047	SFP Environment Hardened 92° C, 120 km, 1539.77 nm LC/PC DWDM Transmitter
1505605-0048	SFP Environment Hardened 92° C, 120 km, 1538.98 nm LC/PC DWDM Transmitter
1505605-0049	SFP Environment Hardened 92° C, 120 km, 1538.19 nm LC/PC DWDM Transmitter
1505605-0050	SFP Environment Hardened 92° C, 120 km, 1537.40 nm LC/PC DWDM Transmitter
1505605-0051	SFP Environment Hardened 92° C, 120 km, 1536.61 nm LC/PC DWDM Transmitter
1505605-0052	SFP Environment Hardened 92° C, 120 km, 1535.82 nm LC/PC DWDM Transmitter
1505605-0053	SFP Environment Hardened 92° C, 120 km, 1535.04 nm LC/PC DWDM Transmitter
1505605-0054	SFP Environment Hardened 92° C, 120 km, 1534.25 nm LC/PC DWDM Transmitter
1505605-0055	SFP Environment Hardened 92° C, 120 km, 1533.47 nm LC/PC DWDM Transmitter
1505605-0056	SFP Environment Hardened 92° C, 120 km, 1532.68 nm LC/PC DWDM Transmitter
1505605-0057	SFP Environment Hardened 92° C, 120 km, 1531.90 nm LC/PC DWDM Transmitter
1505605-0058	SFP Environment Hardened 92° C, 120 km, 1531.12 nm LC/PC DWDM Transmitter
1505605-0059	SFP Environment Hardened 92° C, 120 km, 1530.33 nm LC/PC DWDM Transmitter
1505605-0060	SFP Environment Hardened 92° C, 120 km, 1529.55 nm LC/PC DWDM Transmitter
1505605-0061	SFP Environment Hardened 92° C, 120 km, 1528.77 nm LC/PC DWDM Transmitter
1505605-0062	SFP Environment Hardened 92° C, 120 km, 1527.99 nm LC/PC DWDM Transmitter
CWDM SFP Transceivers (40 km)[1]	
1506017-0027	SFP Environment Hardened 92° C, 40 km, 20dB, 1271 nm LC/PC CWDM Transceiver
1506017-0029	SFP Environment Hardened 92° C, 40 km, 20dB, 1291 nm LC/PC CWDM Transceiver
1506017-0031	SFP Environment Hardened 92° C, 40 km, 20dB, 1311 nm LC/PC CWDM Transceiver
1506017-0033	SFP Environment Hardened 92° C, 40 km, 20dB, 1331 nm LC/PC CWDM Transceiver
1506017-0035	SFP Environment Hardened 92° C, 40 km, 20dB, 1351 nm LC/PC CWDM Transceiver
1506017-0037	SFP Environment Hardened 92° C, 40 km, 20dB, 1371 nm LC/PC CWDM Transceiver
1506017-0039	SFP Environment Hardened 92° C, 40 km, 20dB, 1391 nm LC/PC CWDM Transceiver
1506017-0041	SFP Environment Hardened 92° C, 40 km, 20dB, 1411 nm LC/PC CWDM Transceiver
1506017-0043	SFP Environment Hardened 92° C, 40 km, 20dB, 1431 nm LC/PC CWDM Transceiver
1506017-0045	SFP Environment Hardened 92° C, 40 km, 20dB, 1451 nm LC/PC CWDM Transceiver

Continue to next page

SFP Part Numbers and Descriptions (continued)

Part Number	Description
CWDM SFP Transceivers (40 km)[1] (continued)	
1506017-0047	SFP Environment Hardened 92° C, 40 km, 20dB, 1471 nm LC/PC CWDM Transceiver
1506017-0049	SFP Environment Hardened 92° C, 40 km, 20dB, 1491 nm LC/PC CWDM Transceiver
1506017-0051	SFP Environment Hardened 92° C, 40 km, 20dB, 1511 nm LC/PC CWDM Transceiver
1506017-0053	SFP Environment Hardened 92° C, 40 km, 20dB, 1531 nm LC/PC CWDM Transceiver
1506017-0055	SFP Environment Hardened 92° C, 40 km, 20dB, 1551 nm LC/PC CWDM Transceiver
1506017-0057	SFP Environment Hardened 92° C, 40 km, 20dB, 1571 nm LC/PC CWDM Transceiver
1506017-0059	SFP Environment Hardened 92° C, 40 km, 20dB, 1591 nm LC/PC CWDM Transceiver
1506017-0061	SFP Environment Hardened 92° C, 40 km, 20dB, 1611 nm LC/PC CWDM Transceiver
Fiber Optic Pigtails with Bulkhead Connectors	
1505887	Kit, Opti Max3100 LC/UPC TO SC/APC 1.6 mm jacketed, 0.5 meter
1505888	Kit, Opti Max3100 LC/UPC TO SC/UPC 1.6 mm jacketed, 0.5 meter
1505893	Kit, Opti Max3100 LC/UPC TO SC/APC 1.6 mm buffered, 0.5 meter
1505894	Kit, Opti Max3100 LC/UPC TO SC/UPC 1.6 mm buffered, 0.5 meter
1507005-001	Kit, Opti Max2100 LC/UPC to SC/APC 1.6 mm jacketed, 1 meter

Note:

1. Must order fiber optic pigtail with bulkhead connectors.

Refer to the applicable Opti Max Optical Node Equipment Manual for more information.

Ordering Information

To configure a product that meets your specific needs, or for any questions, please contact your ARRIS Sales Professional. You may also use our Product Wizard, located at support.arrisi.com (User ID and password required). If you do not have a user ID and password or have forgotten your password, please use the Sign In Help section indicated.

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