

ARRIS offers a full range of 1310, CWDM, and DWDM Small Form Pluggable (SFP) optics for the DT7 transmitter series that support data rates of 4.25 Gbps. CWDM SFPs support links of up to 50 km and are available in 16 wavelengths; DWDM SFPs support longer links of up to 80 km and are available in 40 wavelengths. 1310 SFPs support short links of 10 km or less. 1550 SFPs support links of up to 40 km.

Two different DT7 series modules are available to support both 1x85 and 2x85 operation with full Digital Element Management System (DEMS) monitoring via the ARRIS Opti-Trace software. In addition, both the 1x85 and 2x85 modules are compatible with Opti Max 2741 and 4100 segmentable nodes to provide cable operators with maximum design and network flexibility. Contact your ARRIS Sales Professional for additional information.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	6.0" L x 4.0" H x 1.3" W (15.24 cm x 10.16 cm x 3.3 cm)
Weight	1.0 lbs (0.45 kg)
Mini USB port for firmware updates	
Environmental	
Operating temperature range	-40° to +85°C (-40° to 185°F)
Storage temperature range	-40° to +100°C (-40° to 212°F)
Humidity	5% to 95% non-condensing
Power Requirement	
Input voltage	24 ± 0.5 Vdc 5.0 ± 0.2 Vdc
Module power consumption, with SFP	10 W
SFP power consumption (max)	2 W
General	
Hot plug-in/out	
Optical interface connectors	LC Duplex on SFP
Optical transmission bit rates	4250 Mb/s
Number of RF channels	1 for 1x85 modules and 2 for 2x85 modules
RF Specifications	
Operational bandwidth	5–85 MHz
Input return loss, min	16 dB
Level repeatability	± 1.0 dB
System full gain	26.5 dB min. (to DR3450N-99 output)
Input test point	-20 ± 0.5 dB
Frequency response	± 0.5 dB
Distortion	
Nominal loading	5–85 MHz
Nominal input	-60 dBmV/Hz
NPR dynamic range @40	17 dB
BER dynamic range @1.E-06	29 dB
Peak NPR	49 dB

DIGITAL RETURN ORDERING INFORMATION

Part Number	Description
Configured OM6000 Optical Node	Various node configurations including DT7 digital transmitter
1510499-001 (Separate Order)	DT7030N-85-01 – Opti Max 6000/4100/2741, CH3 DR3450 Compatible, 1x85 MHz, 4.25G SFP Required (See Below), Full Opti-Trace compatibility
1510499-002 (Separate Order)	DT7230N-85-02 – Opti Max 6000/4100/2741, CH3 DR3450 Compatible, 2x85 MHz, 4.25G SFP Required (See Below), Full Opti-Trace Compatibility

SFP ORDERING INFORMATION

Part Number	Description
1509444-xx1 – xx = 27-61	4.25G CWDM Transceiver SFP – 18 Wavelengths supported 1270 nm to 1610 nm
1509445-xx1 – xx = 20-60	4.25G DWDM TX Only SFP – 41 Wavelengths Supported ITU Channels 20-60
TKCxxx-TL40 – xxxx = 1270-1610	4.25G CWDM Transceiver SFP – 18 Wavelengths supported 1270 nm to 1610 nm
TKD4580-xx-Pl – xx = 20-60	4.25G DWDM Transceiver SFP – 41 Wavelengths Supported ITU Channels 20-60

RELATED PRODUCTS

Optical Nodes	Optical Patch Cords
SFPs	Optical Passives
Fiber Service Cable	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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