



C-Band DFB Transmitter Modules:

Applications:

- ▶ Network extensions
- ▶ Node splits

Features:

- ▶ Full spectrum, high performance directly modulated DFB C-Band DWDM transmitter
- ▶ Front panel link optimization

Key Benefits:

- ▶ High performance, cost-effective directly modulated DFB transmitter
- ▶ Distances up to 25 km with analog loading & 50 km with all QAM
- ▶ +9 dBm output
- ▶ Advanced pre-distortion & dispersion compensation technology with front panel link distance adjustment
- ▶ Cost-effective solution for node splitting & network extensions

The ATX TranScend C-Band DFB transceiver is a low cost module ideal for node splitting & network extensions.

The directly modulated single wavelength transmitter has a +9 dBm output level with high performance characterized for a full 1 GHz band of 50-550 MHz of analog plus 75 channels of 256 QAM from 550-1002 MHz. The transmitter utilizes a low noise 1550nm DFB laser, advanced pre-distortion & dispersion compensation technology which is optimized for a given distance from the front panel of the TranScend chassis. A +9 dBm transmit power provides excellent performance up to 25 km with analog video channel loading & up to 50 km with all QAM loading. Up to four transmitter modules can be populated in a 1RU TranScend chassis.



C-Band DFB Transceiver
(front view)



C-Band DFB Transceiver
(rear view)



Chassis (front view)
Up to Four Transmitter Modules can Populate a 1RU Chassis

C-Band DFB Transmitter Modules:

C-Band DFB Transmitter Specifications

SPECIFICATIONS		
TRANSMITTER PERFORMANCE⁽¹⁾⁽²⁾		
CARRIER-TO-NOISE (CNR)	> 51 dB	
COMPOSITE TRIPLE BEAT (CTB)	> 63 dB	
COMPOSITE SECOND ORDER (CSO)	> 60 dB	
PRE-FEC BER	1E-7	
FORWARD RF INPUT		
FREQUENCY RANGE	50-1002 MHz	
INPUT LEVEL	15 dBmV	
TEST POINT	-20 dB	
FORWARD OPTICAL OUTPUT		
WAVELENGTH	ITU CHs 21-62	
OUTPUT POWER	+9 dBm	
USER INTERFACE		
FRONT PANEL	DISPLAY	LCD Display with Menu
	CRAFT INTERFACE	RS-232
REAR PANEL (Module)	F-Type RF Input SMB-Type RF Test Point Single SC or LC Optical Connector	
NETWORK MANAGEMENT	SNMP V4	
POWER		
POWER CONSUMPTION	10W	
AC VOLTAGE SUPPLY RANGE	85-240 VAC	
DC VOLTAGE SUPPLY RANGE	42-56 VDC	
ENVIRONMENTAL		
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)	
STORAGE TEMPERATURE	-40°C to +85°C (-40°F to +185°F)	
HUMIDITY	Max. 85% Non-condensing	
PHYSICAL		
DIMENSIONS	1.6"H x 2.75"W x 10.0"D (4.06H x 7.0W x 25.4D cm)	
WEIGHT	0.5 lbs (0.23 kg)	
NOTES:		
(1) With 77 NTSC channels, up to 25 km of fiber, 0 dBm received power into an analog receiver with EIN <7 pA/sqrt (Hz).		
(2) Specified over temperature & lifetime.		

Ordering Information

TSD	-	DFB	-	ITU Channel	-	Connector
				21-62		C = SC
						L = LC



Specifications subject to change without notice.