

TranScend

C-Band DFB Transmitter Modules



C-Band DFB Transmitter
(front view)

The ATX TranScend C-Band DFB transceiver is a low cost module ideal for node splitting and 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 and 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 and up to 50 km with all QAM loading. Up to four transmitter modules can be populated in a 1RU TranScend chassis.

Key Benefits

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

Applications

- Network extensions
- Node splits

Features

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



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

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 and lifetime.

Ordering Information

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

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