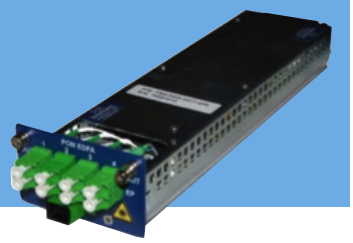
TranScend



EDFA Optical Amplifier Modules:

Applications:

The high performance ATX EDFA has been deployed for numerous applications:

- Node segmentation
- Distribution networks
- RFoG applications
- FTTx networks
- Long haul super-trunking

Key Benefits:

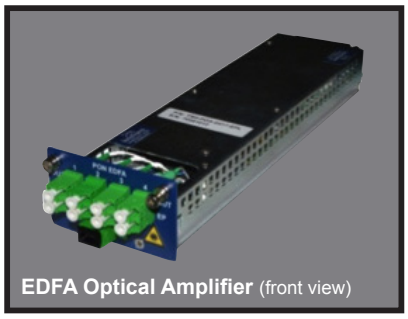
- Modular, space-efficient & flexible configurations
- Up to 16 ports in a 1RU TranScend chassis configured with four EDFA modules
- Up to 18 dBm per port output power
- Hardened EDFA modules available for extreme operating temperatures of -20°C to +75°C

Features:

- Four compact modules in a single TranScend TSD-CH-DC chassis
- Multi-output options single, dual & quad outputs
- 4.5 dB noise figure, optimized for CATV applications
- Gain flattened options available
- Dedicated express ports reduce fiber interconnections
- SNMP remote monitoring

The ATX TranScend EDFAs offer a cost-effective solution to increase fiber reach in various CATV architectures. When used in conjunction with the ATX Chromadigm series of transmitters, they offer unprecedented performance at a very attractive price point.

The TranScend EDFA series are offered in a range of output ports & power levels. Other features include express ports for reducing fiber interconnect & a gain flattened version. All the EDFA modules are also available in a hardened version for extreme temperature operation.



EDFA Optical Amplifier (front view)

EDFA Optical Amplifier Modules:

EDFA Optical Amplifier Specifications

SPECIFICATIONS		
EDFA PERFORMANCE		
EDFA NOISE FIGURE		< 4.5 dB
OPTICAL OUTPUTS(1)		
NUMBER OF OUTPUTS		1, 2 or 4
OUTPUT POWER PER PORT		See Available Configurations
OUTPUT POWER REDUCTION WITH EXPRESS PORT(2)		< 1 dBm
OUTPUT POWER VARIATION OVER TEMPERATURE		± 0.2 dB
AMPLIFICATION WAVELENGTH		1545-1562nm
OPTICAL INPUT		
OPTICAL INPUT POWER LEVEL(3)		-6 to +10 dBm
EXPRESS PORT		
PASSBAND		1544-1559nm
REFLECT BAND		1300-1620nm
INSERTION LOSS		< 0.6 dB
USER INTERFACE		
FRONT PANEL		LCD Display with Menu Switch Keys
REAR PANEL	OPTICAL INPUT CONNECTORS	SC/APC
	OPTICAL OUTPUT CONNECTORS	SC/APC or LC/APC
	EXPRESS PORTS	LC/APC
NETWORK MANAGEMENT		SNMP V2
POWER		
POWER CONSUMPTION		15W
AC VOLTAGE SUPPLY RANGE		85-240 VAC
DC VOLTAGE SUPPLY RANGE		42-56 VDC
ENVIRONMENTAL		
OPERATING TEMPERATURE	STANDARD	0ºC to +50ºC (+32ºF to +122ºF)
	HARDENED	-20ºC to +75ºC (-4ºF to +167ºF)
STORAGE TEMPERATURE		-40ºC to +85ºC (-40ºF to +185ºF)
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		< 1.0 lbs (0.45 kg)

NOTES:
(1) Measured at 0 dBm input power.
(2) When the express port is built-in, the output power requirement in the RFoG network is reduced & the EDFA O/P is reduced to reflect this reduced power requirement.
(3) The amplifier will show slight CNR & output power variations over this range of optical input power. For minimal CNR impact, an input power of +4 dBm is recommended. Amplifiers may shut down at input optical powers below -3 dBm to prevent excessive noise at the output.

Available Configurations

Available Configurations
One Port at: 15, 18 , 19 or 20 dBm
Two Ports at: 12 or 21 dBm
Four Ports at: 10, 15 or 18 dBm
All EDFAs are available as an option for hardened -20ºC to +75ºC operating environment.
All EDFAs are available with express ports as an option. The standard two-port EDFAs have express ports built in.
Single 18 dBm band flattened EDFA is available as an option.

NOTE:
Other configurations available on request.

Specifications subject to change without notice.

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