HFC Enhance®

Drop-in Node Upgrades

D3.1 / CCAP™ Compliant

C-Cor NT/NB Return Path Transmitters:

Features & Benefits:

- 1310nm, 1550nm or CWDM, DFB-based return path transmitter module
- Designed to perform better than or equal to the original manufacturer's model
- Replace failed legacy return path transmitters or improve return path performance by replacing existing F-P transmitter module with a DFB transmitter module
- Convenient DC test point provides indicator of optical output power (1V/mW)
- Convenient RF test point to measure RF input level
- Low power consumption & good heat dissipation increases service life & reliability

Return Path Transmitter Module

NT/NB Return Path Transmitter Specifications

SPECIFICATIONS	RETURN TRANSMITTERS: DFB & CWDM
FREQUENCY RESPONSE (+/- 1.0 dB)	5-220 MHz
NPR (DFB/CWDM)*	> 15 dB over 41 dB NPR
INPUT RETURN LOSS	> 16 dB
OPTICAL OUTPUT PARAMETERS	
OPTICAL OUTPUT (DFB)	1.0, 2.0 or 3.0mW @ 1310nm / 2.0mW @ 1550nm CWDM
RETURN LOSS	> 60 dB with APC Connectors
OPTICAL CONNECTORS	SC/APC; FC/APC; SC/UPC; FC/UPC
USER INTERFACE	
OPTICAL OUTPUT LEVEL	1V/mW
RF TEST POINT	-20 dB
ELECTRICAL, ENVIRONMENTAL & MECHANICAL PARAMETERS	
OPERATING TEMPERATURE	-40ºC to +70ºC (-40ºF to +158ºF)
HUMIDITY	20%-55% (without condensation, inside housing)
POWERING	24 VDC, -6.5 VDC (both on DSUB connector)
PHYSICAL	
DIMENSIONS	4.2"H x 4.75"W x 1.3"D (10.6H x 12.3W x 3.3D cm)
WEIGHT	0.7 lbs (0.32 kg)

NOTES:
* Measured with 17 km of fiber, 35 MHz loading.
Call ATX for assistance in determining optimum drive levels for your system.

C-Cor NT/NB Return Path Transmitters:

Ordering Information

Return Path Transmitter Modules:

1310nm DFB

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- **1** = 1mW
- **2** = 2mW
- **3** = 3mW

- **SA** = SC/APC
- **SU** = SC/UPC
- **FA** = FC/APC
- **FU** = FC/UPC

CWDM DFB, 2.0mW

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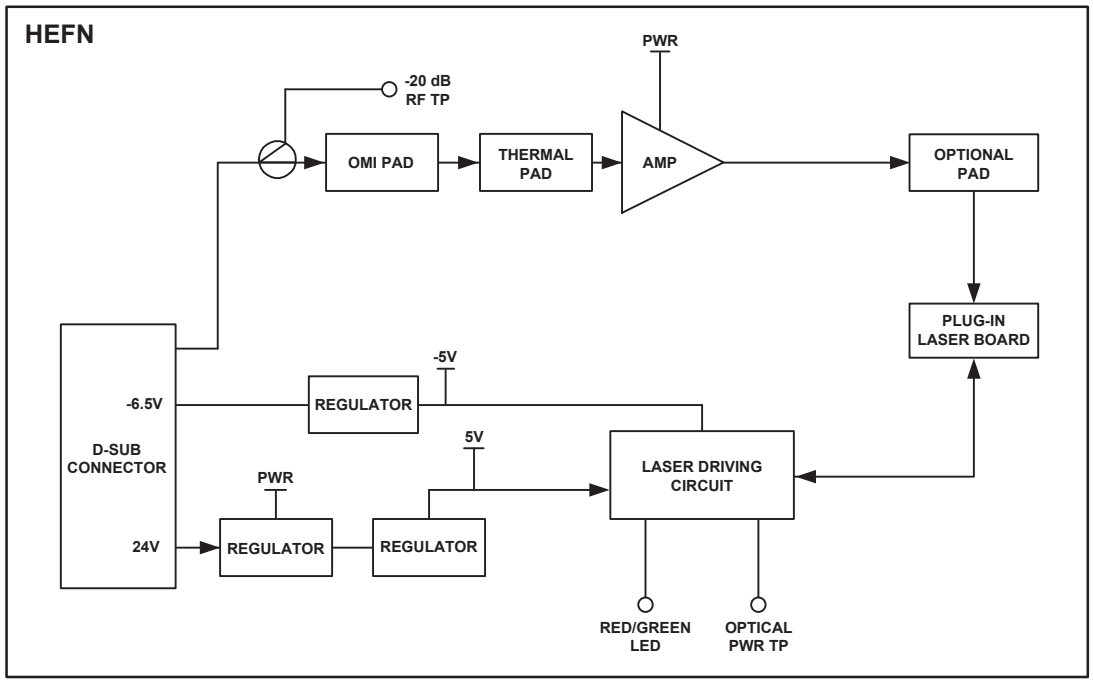
- **SA** = SC/APC
- **SU** = SC/UPC
- **FA** = FC/APC
- **FU** = FC/UPC

- **47** = 1470nm
- **49** = 1490nm
- **51** = 1510nm
- **53** = 1530nm
- **55** = 1550nm
- **57** = 1570nm
- **59** = 1590nm
- **61** = 1610nm

(other channels available, consult ATX.)

Functional Schematic



Specifications subject to change without notice.