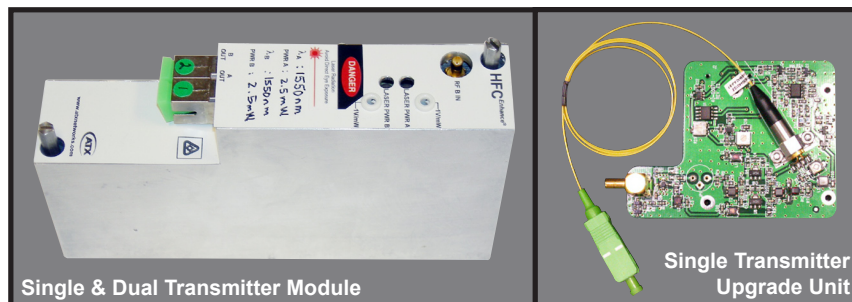




### ISX-30XX\* Dual & Field Upgradeable Single Return Path Transmitters:

#### Features & Benefits:

- ▶ 1310 nm, 1550 nm 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
- ▶ Single transmitter modules allow for immediate legacy module replacement or upgrade, and can also be field upgraded to a dual transmitter module in order to support future node segmentation requirements (for details, see HFC Enhance® Node Segmentation for the ISX-30XX Platform spec sheet)
- ▶ Dual transmitter module accommodates node segmentation (for details, see HFC Enhance® Node Segmentation for the ISX-30XX Platform spec sheet) or route redundancy applications
- ▶ Convenient DC test point provides indicator of optical output power (1V/mW)
- ▶ Low power consumption & good heat dissipation increases service life and reliability



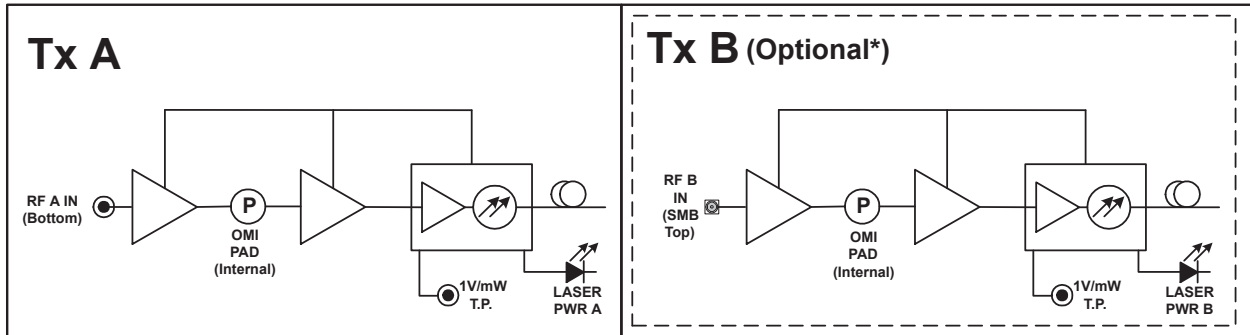
### Return Path Transmitter Specifications

SPECIFICATIONS		RETURN TRANSMITTERS: DFB & CWDM
<b>RF INPUT &amp; PERFORMANCE PARAMETERS</b>		
FREQUENCY RESPONSE RANGE (+/- 1.0 dB)	5 - 220 MHz	
NPR (DFB/CWDM)*	> 15 dB over 41 dB NPR*	
INPUT RETURN LOSS	> 16 dB	
<b>OPTICAL OUTPUT PARAMETERS</b>		
OPTICAL OUTPUT (DFB)	1.0, 2.0 or 3.0 mW @ 1310 nm / 2.5 mW @ 1550 nm CWDM	
RETURN LOSS	> 60 dB with APC Connector	
OPTICAL CONNECTOR	SC/APC; FC/APC; SC/UPC; FC/UPC	
<b>USER INTERFACE</b>		
OPTICAL OUTPUT LEVEL	1V/mW	
LASER ON INDICATOR	LED	
INPUT LEVEL CONTROL	SXP PAD	
<b>ELECTRICAL, ENVIRONMENTAL &amp; MECHANICAL PARAMETERS</b>		
OPERATING TEMPERATURE RANGE	-40°C to +60°C (-40°F to +140°F) (ambient temperature around Node)	
POWERING	Single Transmitter Module: 24V, 65mA Dual Transmitter Module: 24V, 130mA	
<b>NOTES:</b>		
* Measured with 17 km of fiber, 35 MHz loading. Call factory for assistance in determining optimum drive levels for your system.		

\*The ISX-30XX product name is the property of its owner in the United States and/or other countries.

**ISX-30XX\* Dual & Field Upgradeable Single Return Path Transmitters:**

Dual Return Path Transmitter Functional Schematics



\* Tx B can be installed at time of manufacture or field installed at a later date

Ordering Information

**Single Transmitter Modules:**

**1310 nm DFB**

HEIX13\_\_

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

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

**1550 nm and CWDM DFB, 2.5 mW**

HEIX\_\_2.5

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

- 15 = 1550 nm
- 47 = 1470 nm
- 49 = 1490 nm
- 51 = 1510 nm
- 53 = 1530 nm

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**Single Transmitter Upgrade Unit:**

**1310 nm DFB**

HEIX13\_\_U

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

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

**1550 nm and CWDM DFB, 2.5 mW**

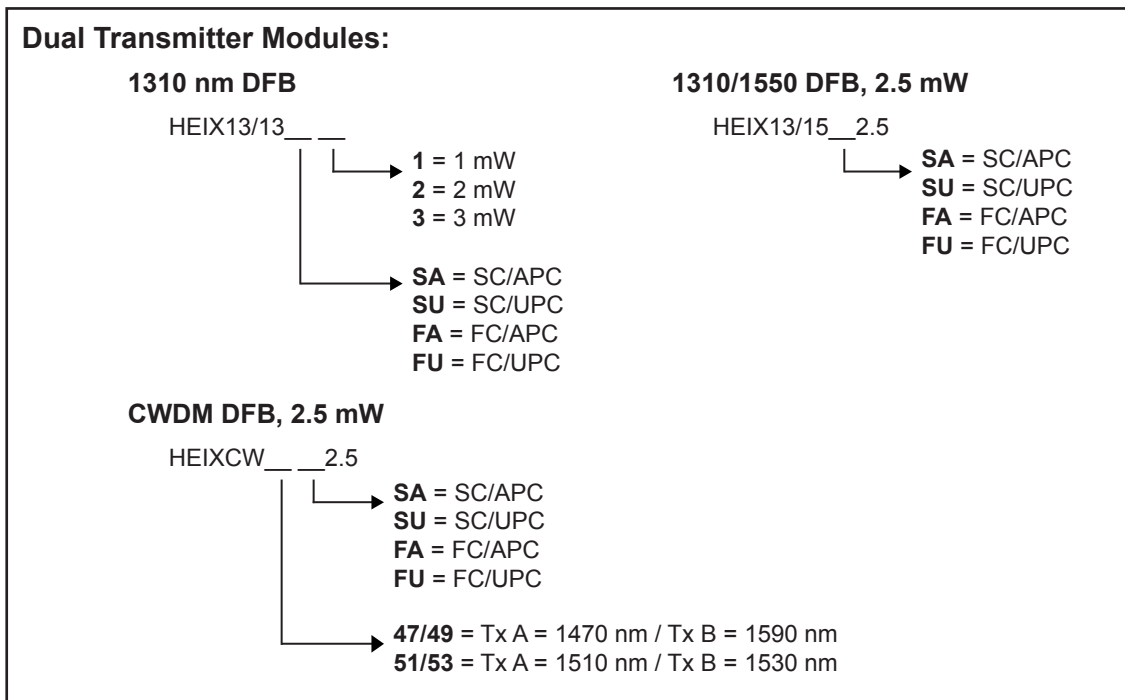
HEIX\_\_2.5U

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

- 15 = 1550 nm
- 47 = 1470 nm
- 49 = 1490 nm
- 51 = 1510 nm
- 53 = 1530 nm

**ISX-30XX\* Dual & Field Upgradeable Single Return Path Transmitters:**

Ordering Information (cont'd)



Specifications subject to change without notice.