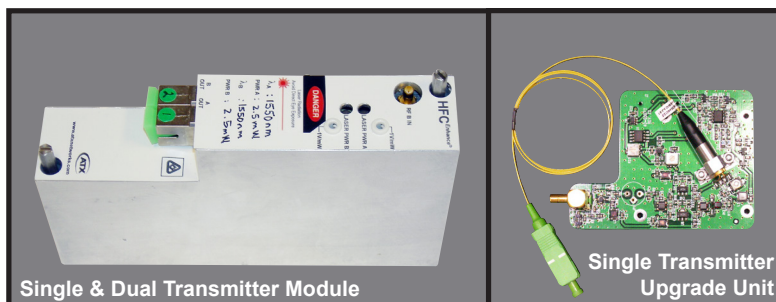




ISX-30XX Dual & Field-Upgradeable Single Return Path Transmitters:

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
- ▶ 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 & reliability

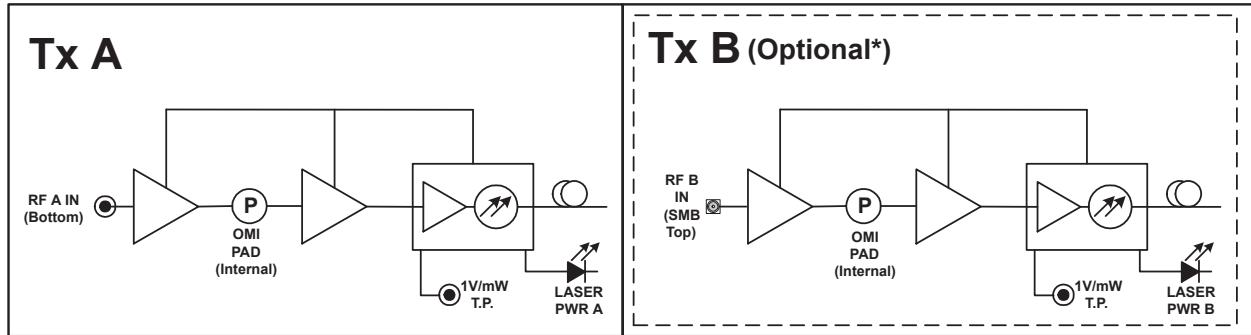


Return Path Transmitter Specifications

SPECIFICATIONS		RETURN TRANSMITTERS: DFB & CWDM
RF INPUT & PERFORMANCE PARAMETERS		
FREQUENCY RESPONSE RANGE (+/- 1.0 dB)	5-220 MHz	
NPR (DFB/CWDM)*	> 15 dB over 41 dB NPR*	
INPUT RETURN LOSS	> 16 dB	
LINK LEVEL STABILITY	+/- 2.5 dB	
OPTICAL OUTPUT PARAMETERS		
OPTICAL OUTPUT (DFB)	1.0, 2.0 or 3.0mW @ 1310nm / 2.5mW @ 1550nm / CWDM +/- 1.5 dB	
RETURN LOSS	> 60 dB with APC Connector	
OPTICAL CONNECTOR	SC/APC; FC/APC; SC/UPC; FC/UPC	
USER INTERFACE		
OPTICAL OUTPUT LEVEL	1V/mW +/- 10%	
LASER ON INDICATOR	LED	
INPUT LEVEL CONTROL	SXP PAD	
ELECTRICAL, ENVIRONMENTAL & MECHANICAL PARAMETERS		
OPERATING TEMPERATURE	-40°C to +60°C (-40°F to +140°F) (ambient temperature around Node)	
HUMIDITY	20%-55% (without condensation, inside housing)	
POWERING	Single Transmitter Module: 24V, 65mA Dual Transmitter Module: 24V, 130mA	
PHYSICAL		
DIMENSIONS	6.3"H x 1.54"W x 3.94"D (16.0H x 3.6W x 10.0D cm)	
WEIGHT	0.9 lbs (0.41 kg)	
NOTES:		
* Measured with 17 km of fiber, 35 MHz loading. Call ATX for assistance in determining optimum drive levels for your system.		

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

Dual Return Path Transmitter Functional Schematics



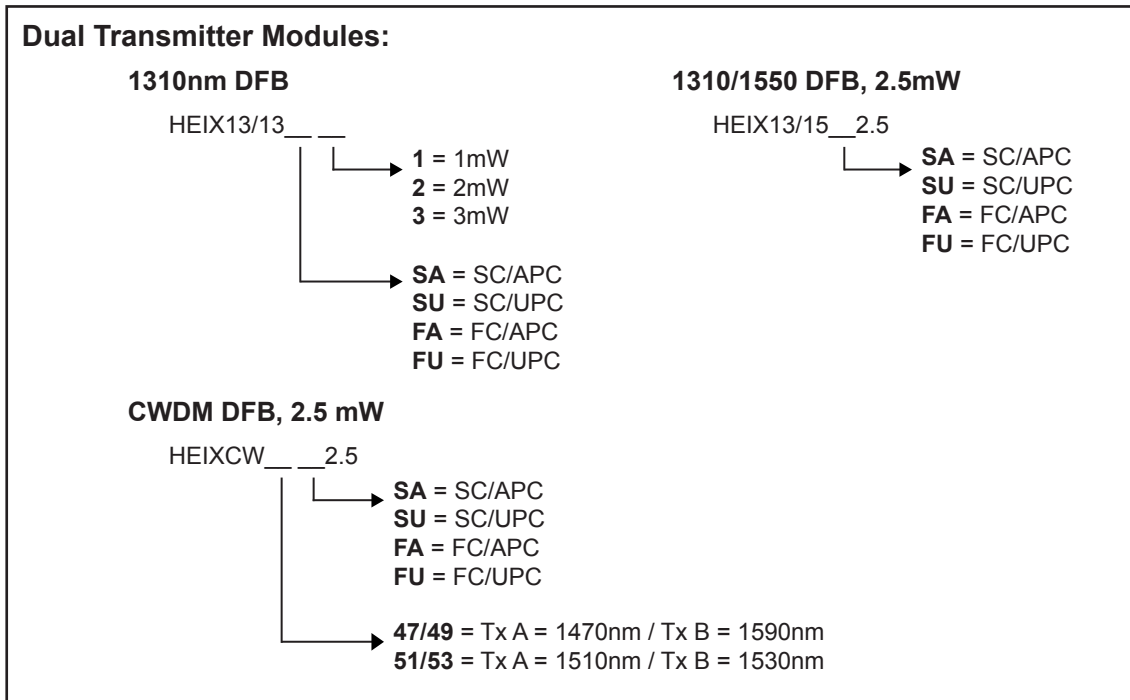
* Tx B can be installed at time of manufacture or field installed at a later date

Ordering Information

<p>Single Transmitter Modules:</p>	
<p>1310nm DFB</p> <p>HEIX13__</p> <ul style="list-style-type: none"> 1 = 1mW 2 = 2mW 3 = 3mW <ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC 	<p>1550nm and CWDM DFB, 2.5mW</p> <p>HEIX__2.5</p> <ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC <ul style="list-style-type: none"> 15 = 1550nm 47 = 1470nm 49 = 1490nm 51 = 1510nm 53 = 1530nm
<p>Single Transmitter Upgrade Unit:</p>	
<p>1310nm DFB</p> <p>HEIX13__U</p> <ul style="list-style-type: none"> 1 = 1mW 2 = 2mW 3 = 3mW <ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC 	<p>1550nm and CWDM DFB, 2.5mW</p> <p>HEIX__2.5U</p> <ul style="list-style-type: none"> SA = SC/APC SU = SC/UPC FA = FC/APC FU = FC/UPC <ul style="list-style-type: none"> 15 = 1550nm 47 = 1470nm 49 = 1490nm 51 = 1510nm 53 = 1530nm

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

Ordering Information (cont'd)



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Specifications subject to change without notice.