

HFC Enhance® PHILIPS NRT-WB2HP RETURN TRANSMITTER

1. Overview

The upgraded HENRTxxxxxC DFB Return Path Transmitter shown in Figure #1.



Figure #1

2. Installation of Return Segmentation Kit

1. Power off the node.
2. Open the node, locate the existing Return Transmitter Module, remove it and replace it with the new module provided.
3. Reconnect the FIBER and COAX cables of the transmitter to appropriate locations.
4. Power the node back on.
5. When everything is connected and the unit is powered, adjust the level of the transmitter for optimum RF drive level (see Section #3).

3. Setting Laser Drive Levels

The HFC Enhance Return Path upgraded DFB Transmitters for the Philips Nodes have been optimized based on the assumption that they will be driven with 37 MHz of loading. The optimum drive level is labeled at the “RF DRIVE LEVEL TP” test point on the transmitter module.

To adjust the driver level for the transmitter, adjust the padding or the OMI pot on the Return Path Transmitter.

NOTE:

The optimum operating point for the transmitter is selected as the point that is 5 dB above the location where the noise side of the NPR curve crosses 41 dB. The NPR curve is generated using 37 MHz of noise loading and the per carrier power level is calculated assuming that the total power is calculated at the optimum operating point is spread across 6 carriers.

Service & Support

Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX Customer Service to obtain a valid RMA number for any ATX products that require service and are in or out-of-warranty before returning a failed module to the factory.

ATX Networks
1-501 Clements Road West
Ajax, ON L1S 7H4 Canada

Tel: (905) 428-6068
Toll Free: (800) 565-7488
Fax: (905) 427-1964
Toll Free Fax: (866) 427-1964
Web: www.atxnetworks.com
E-mail: support@atxnetworks.com

Warranty Information

All of ATX Networks' products have a 1-year warranty that covers manufacturer's defects or failures.



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