

Intraplex[®] PTR-155

7.5 kHz Enhanced apt-X[™]
Program Audio Module



The Intraplex[®] PTR-155 program audio module provides digital transmission of one or two full-duplex 7.5 kHz audio channels. It features Intraplex[®] Enhanced apt-X[™] 4:1 data compression, which allows an audio channel to be carried in only 64 kb/s.

The PTR-155 is a plug-in module designed to be used in Intraplex T1, E1 or IP transport systems, combining program audio traffic with other voice and data signals for transmission on high-speed digital circuits.

The PTR-155 module installs easily in either an Intraplex NetXpress[™] IP multiplexer or an Intraplex T1/E1 multiplexer. In NetXpress[™], operational parameters can be set up via the NetXpress Web browser control interface (from the NetXpress home page). In a T1 or E1 multiplexer, operational parameters for the PTR-155 can be established using IntraGuide[®] configuration and management software (version 5.1 or higher) via the remote port on the multiplexer.

Features

- Two independent full-duplex channels per module
- Single- or dual-channel operation
- Selectable audio input impedance
- Selectable transmit/receive directions for use in drop-and-insert multiplexers
- Enhanced apt-X compression algorithm, providing 4:1 data compression to allow an audio channel to be carried in only 64 kb/s
- Local digital loopback
- Equipment analog loopback
- Remote analog loopback
- Loopback timeout
- 1004 Hz audio test tone

Specifications

Specifications are subject to change without notice.

General

System Compatibility	The PTR-155 is compatible with Intraplex T1, E1 and IP transport systems
Operating Mode	Selectable: one or two full-duplex audio channels per module

Audio

Frequency Response	7.5 kHz nominal 5 Hz to 7.5 kHz, +/- 3.0 dB 100 Hz to 7.0 kHz, +/- 0.5 dB
Maximum Full Load Level	+15 dBm (0 dBm = 0.775 Vrms)
Dynamic Range	>63 dB
Crosstalk	<-80 dB
Input Impedance	600 ohms or >10,000 ohms
Output Impedance	100 ohms
Compression Algorithm	Enhanced apt-X™

Input/Output Modules

Connectors	Terminal screws when using MA-506 50-pin Telco when using MA-507 connector
Network Interface	
Line Error Tolerance	No audible degradation at 10 ⁻⁵ random bit error rate
Time Slot Assignments	One DS0 (64 kb/s) per active channel

Status and Diagnostics

LED Indicators	Decoder sync — channel 1, 2 Normal input level — channel 1, 2 Overload input level — channel 1, 2 Service Fail Loopback — channel 1, 2
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Physical and Environmental

Nominal Power Consumption	5 W with both channels active
Temperature	32° to 122° F (0° to 50° C) operating
Humidity	0% to 90% non-condensing

For more information, please visit www.broadcast.harris.com/radio.

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