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FINISAR

Key Features

- High-Density: 10 ports for XFP-RF transmitters in 1 rack-unit high chassis
- Host system provides additional RF gain with attenuation control to each transmitter port
- User-friendly web browser interface to set up and configure transmitters
- Standard SMA type connectors for RF input on the rear of the chassis
- Front and back Ethernet SNMP ports
- USB port for future interface applications
- Two slots for hot-swappable pluggable power supply modules
- Field-Replaceable Cooling Fan
- Mounts into standard 19-inch racks
- Complies with the SCTE HMS HE Optics Management Information Base (MIB) Specifications

Applications

- Wireless Back-Haul or Front-Haul
- L-Band Transport and Distribution
- Distributed Antenna Systems (DAS)

XFP-RF Transmitter Host System

50 MHz to 3 GHz RF-over-Fiber Transport

High-density chassis for pluggable 3 GHz wavelength-tunable XFP-RF transmitters

OVERVIEW

Finisar's XFP-RF transmitter rack-mounted chassis is specifically designed around the new XFP-RF transmitter module to provide high module density and low power consumption in cable operators hubs and headends. Ten full-band 3000 MHz HFC transmitters can be deployed in this 1 rack-unit high chassis. For each transmitter port, the host system provides individual RF amplification and adjustable RF attenuation to optimize the optical module index on each XFP-RF transmitter.

This host system has an embedded controller which provides sophisticated control functions and multiple communication interfaces. A web browser user interface allows the transmitter modules to be configured through one of the two Ethernet SNMP ports. Also, an element management system can remotely monitor and control the transmitter modules by connecting the system to an IP network.

The host system is powered by one or two hot-swappable pluggable power supply modules that install in the rear of the chassis. A fully-loaded host system can be powered by one AC power supply or one DC power supply. For redundancy, a second power supply can be added. For complete power system redundancy in headends or hubs, one AC power supply and one DC power supply can be used simultaneously.

KEY ADVANTAGES

- High-Density: 10 transmitters per rack-unit
- Redundant powering capability
- User-friendly web browser configuration tool

Chassis, XFP-RF Transmitter Host System

Specifications

Parameter	Value
RF Bandwidth	50 MHz to 3000 MHz
RF Input, Composite	-25 dBm, typical per RF input connection
RF Flatness	+/- 1.5dB
RF Link Gain	> 0dB
Link Noise Figure	< 20dB
OIP3	> +3dBm
RF Impedance	50 Ohms
RF Input Return Loss	-10 dB
RF Input Connections	SMA-type connectors (10) on rear
Dimensions	449 mm (W) X 378 mm (D) X 44.5 mm (H) 17.7 in (W) X 14.875 in (D) X 1.75 in (H)
Operating Temperature Range	0˚C to 50˚C
Storage Temperature Range	-40˚C to 85˚C
Power Consumption	60 Watts, Max (includes two power supplies and embedded controller; not XFP-RF transmitter modules)
Communications interfaces	Ethernet SNMP, RJ-45 on Front Panel Ethernet SNMP, RJ-45 on Rear Panel USB port on Front Panel (future use)
Indicators	LED for each transmitter port (10) Summary LED's for chassis and power supply status
AC Power Supply XPACAA	105 to 264 Vrms, auto-sensing; 47 to 63 Hz
DC Power Supply XPDCAA	36 to 75 Vdc

Note: specifications at minimum RF attenuator setting with Finisar 3GHz XFP-RF transmitter to Finisar optical receiver over 1 km of SMF-28 single-mode fiber.

Rear View

Product Selection

Part Number	Description
XC00AARTZAJ	Chassis, XFP-RF transmitter, 1 rack-unit high, 10 XFP-RF ports
XPACAA	Power Supply for XFP-RF Chassis 10UP, AC
XPDCAA	Power Supply for XFP-RF Chassis 10UP, DC

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