FINISAR

XFP-RF Transmitter Host System

for CATV Hybrid Fiber Coaxial (HFC) Applications

Key Features

- High-Density: 10 ports for XFP-RF transmitters in 1 rack-unit high chassis
- Compliant with DOCSIS 3.1 with operating bandwidth above 1.2GHz
- User-friendly web browser interface to set up and configure transmitters
- Standard F-type connectors for RF input in rear of the chassis
- RF Test point for each transmitter port
- 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

- 1550nm Broadcast with DWDM Narrowcast Overlay architectures
- All-Digital QAM networks

High-density chassis for pluggable 1.2GHz wavelength-tunable XFP-RF transmitters

Overview

Finisar's XFP-RF transmitter rack-mounted host system 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 DOCSIS 3.1 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 1200 MHz
RF Input Level	+12 dBmV per channel with loading of 153 QAM Channels
RF Impedance	75 Ω single-ended
RF Flatness	1.0 dB typ, peak to peak, 50 MHz to 1003 MHz
RF Input Return Loss	16 dB min, 52 MHz to 1003 MHz
RF Input Connections	F-type connectors (10) on rear
RF Test Point Connections	MCX-75 Female Sockets (10) on front (ANSI/SCTE 176 2011)
Test Point RF level	20dB down from RF input level at F-type connector
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

Rear View

Product Selection

Part Number	Description
XC00AAQTZAJ	Host system, XFP-RF transmitter, 1 rack-unit high, 10 XFP-RF ports
XPACAA	Power Supply for XFP-RF Host system 10UP, AC
XPDCAA	Power Supply for XFP-RF Host system 10UP, DC

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