Z-Distribution ZHC

Passthrough

Product Specifications

Z-Band Technologies | 848-B N. Hanover St., Carlisle, PA 17013
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Product Description

The Z-Distribution ZHC is the 5th generation of Z-Band's RF distribution system to implement RF over a category cable. The ZHC is designed to distribute channels 2-135 of an RF video system (54 to 860MHz) while keeping the video programming in its native RF format. The unit automatically splits, amplifies, slopes, and attenuates signal levels when necessary. The system is designed to balance itself with no in-line amplification or manipulation.

Options

The Z-Distribution ZHC includes a variety of options for both connections and functionality. The system can support either a coaxial or single-mode fiber signal input. The system can be configured to support 8/16/24 output connections via the front panel's RJ45 interface on the bottom row. The top row of RJ45 ports allows for a 10/100 ethernet data passthrough functionality while using the same cabling infrastructure. Remote system management software is also available. We recommend contacting your Z-Band market manager or territory rep for ordering information and details on option packages.

Monitoring & Management Software

Z-Band's Z-Distribution ZHC is the first of our systems to offer a full diagnostic and monitoring software that will be accessible via the network. This software platform allows our customers and our staff to monitor and manage an individual unit or an entire system. This software will increase our capability to manage and diagnose issues with our Z-TV deployments and add an additional level of service to Z-Band and its partners.

Models	Z-Distribution ZHC Passthrough 8/16/24 F/P/X
Physical Description	**Dimensions:** 17" wide x 1 7/16" high x 12" deep (designed for 1RU of rack space) **Weight:** 7lbs
Electrical Power	**Power Consumption:** 12V DC @ 8.5A via external power supply **External Power Supply Input Voltage:** 100-240V AC, 50-60Hz, 2A Max
Transmission Details	RF Signal outbound on pins 7&8 of CAT cable, Proprietary control data on pins 4&5 and IP data (10/100 maximum) passed on pins 1,2,3,6
LED Lights	• Front Panel Only, Listed Top To Bottom • Master – Red LED, On when unit is in Master Mode • Satellite – Yellow LED, On when unit is in Satellite Mode • Power – Green LED, flashes when unit is detecting issues with power supply, solid when on

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System Requirements	• Coax INPUT: 18-20dBmV RF Power • Fiber INPUT: -2dBm to -3.5dBm @1310nm wavelength • MER (Modulation Error Rate) greater than 40dB	
Resolution	**Video Resolution:** Z-Band system makes no manipulation to video programming. All visible and non-visible content is passed through to the viewing/decoding device. This includes, closed captioning, EAS data, alternate languages, and any resolutions sent in a 6MHz video frequency.	
Electrical Radio Frequency	• Supports forward path RF frequencies from 54Mhz to 860MHz. • Optional support for reverse path (see Bi-Directional Addendum for more details) • Pilot Tone at 240MHz with power level of 23dBmV on all eight coaxial outbound ports	
Input/Output	Input	Output
	• F-Connector for RG-6 or RG-11 coaxial input (CATV/CASC IN port) • Ethernet 10/100Base-T via RJ-45 shielded connector (Management Port) • Single Mode Fiber w/ SC-APC Connection (SC-APC Fiber Port)	• Qty. 8 Outbound Coaxial F-Connectors on rear panel for distribution of TV Signal to satellite Distribution ZHC units • Qty. 8/16/24 RJ-45 interfaces on front panel for distribution to Z-TV Baluns.
Environment	**Operating Temperatures:** 15ºC to 28ºC **Relative Humidity:** 5% to 95% (non-condensing) **Storage Temperature:** -40°C to 70°C **BTU/HR:** < 400	
Agency Standards	FCC Part 15, Subpart B Compliant	

** The back panel pictured above features the coaxial return path configuration. Other configurations are available. Talk to an authorized Z-Band representative to learn more.*

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