Z-Distribution ZHC Switch Option
Product Specifications



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 functions. 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. The RJ45 port(s) on the back of the unit labeled 'Switch' is a gigabit input port(s) which will allow for a 10/100 ethernet data passthrough functionality while using the same cabling infrastructure. The unit's internal ethernet switch is capable of switching one incoming 1Gbps ethernet data connection to multiple 10/100M connections. Depending on the configuration of the front panels, the switch can have either 1/2/3 Gigabit input ports. 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 ZBand and its partners.

Models	Z-Distribution ZHC Standard 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	**Max Power Consumption:** 12V DC @ 8.5A via external power supply (102W MAX) **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

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LED Lights	Front Panel Only, Listed Top to Bottom • Main - Red LED, On when unit is in Main Mode • Cascade - Yellow LED, On when unit is in Cascade Mode • Power - Solid Green LED (flashes when unit detects issues with power supply)	
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 RF content is passed through to the viewing/decoding device. This includes, closed captioning, EAS data, alternate languages; all analog or digitally modulated content.	
Supported RF Spectrum	• Supports forward path RF frequencies from 48Mhz 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 ports on front panel for distribution to Z-TV Baluns.
Environment	**Operating Temperatures:** 15°C to 28°C **Relative Humidity:** 5% to 95% (non-condensing) **Storage Temperature:** -40°C to 70°C **BTU/HR:** < 400	
Regulatory Information	FCC Part 15, Subpart B Compliant HS Code (International): 8525.50 Schedule B (U.S. Export, 2026): 8525.50.2050	



** The back panel pictured above features a downstream fiber and two RJ-45 inputs for a 16-port switch configuration. Other configurations are available. Talk to an authorized Z-Band representative to learn more.*

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