Z-Balun ZHC

Product Specifications

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Product Description

The *Z-Balun ZHC* is one of the essential components of Z-Band's high definition video distribution system. It is located at the receive end of the system and permits a TV or PC with a Tuner Card to be connected to the system for HDTV over CAT 5e or better cable. The balun is not only an impedance matching device, but serves also as a small self-adjusting amplifier and signal conditioner that senses its distance from the hub, and adjusts its output to assure proper signal level to the TV at distances up to 100 meters. The input to the *Z-Balun ZHC* from a wall outlet is connected via an RJ-45 Jack and its output features an F-Connector and an auxiliary RJ-45 Jack for IP application.

Features & Benefits

Automatically senses horizontal Category cable distance as shown by LED indicators on free-hanging balun. Adjusts TV receive level by inserting proper signal conditioning algorithm. Provides unique identification impedance signature to *Z-Distribution ZHC* for port activation. The aux port has the ability to pass both RS232 and IP simultaneously, and with the available web GUI, users can force buckets and check serial numbers/locations remotely.

Part #	ZBT0010085
Physical Description	**Weight:** Approximately 6 ounces **Size:** 2.8" L x 2.4" W x 1.0" H F-Connector (bottom) (2) RJ-45 Jacks (top) LED distance indicators (bottom)
Power	8 VDC at ½ watt supplied remotely on RJ 45 pins 7&8 via Z-Distribution REG (no local power required)
Electrical Radio Frequency	Impedance matching 100ohm to 75ohm with signature protection to avoid accidental data connection **Forward:** 5 MHz to 860 MHz (pins 7 & 8) Assures proper TV receive level 0 to +15 dBmV for analog signals and +/-10 dBmV for digital **Return Path:** 5 MHz to 42 MHz **Return Loss:** greater than 14 dB **C/N:** greater than 43 dB **MER:** greater than 32 dB
Return Path	**Response Level**: 14 dBmV **Response Time:** 10 micro seconds

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Environment	**Operating Temperature:** 0 to 55° C **Relative Humidity:** 5 to 95% **Storage Temperature:** -40 to 70° C
Agency Standards	UL/CSA Listed, FCC Part 15, Subpart B Compliant, ANSI/TIA-568-C Series

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