Z-BAND

Z-Balun WE A
HDTV Over CAT5E, CAT6, CAT7 or Cable UTP
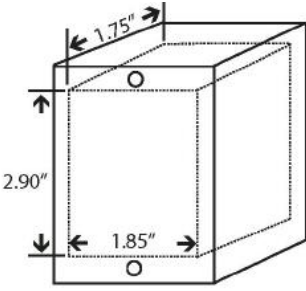

Z-Balun WQM
Product Specifications

Product Description

The wall mount *Z-Balun WQM* is one of the basic components of Z-Band's high definition video distribution system. It is located at the receive end of the system and permits a TV, Set Top Box/Cable Box 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 wall mount *Z-Balun WQM* is via a RJ-45 Jack on the rear. Its output on the front of the device features an F-Connector for RF video and an auxiliary RJ-45 Jack for IP applications.

Features & Benefits

Automatically senses horizontal twisted pair distance. Adjusts proper TV receive level by inserting proper signal conditioning algorithm. Provides unique identification impedance signature to *Z-Distribution REG*. DATA (DOCSIS)/FSK preamble activates the return path.

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Model	HZ 5004-3	
Physical Description	Fits into a Single Gang Box (See Figure 1) ✎ F-Conector (top front) ✎ 1 RJ-45 Jack (bottom) ✎ 3" CAT 6 Jumper (included)	**Figure 1: Minimum Internal Dimensions**
Wall Mount Configuration	Unidirectional Balun with RF video capability	
Return Path	**Response Level:** 14 dBmV **Response Time:** 10 micro seconds	
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	
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	

Figure 1 dimensions: 1.75", 2.90", 1.85"

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