

Z-Balun WQM Product Specifications



Z-Balun WQM

Product Specifications



Product Description

The wall mount *Z-Balun WQM* 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, 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 an 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 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.

Part #	ZBT0010025	
Physical Description	Fits into a Single Gang Box (See Figure 1) <ul style="list-style-type: none"> ➤ 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	

Z-Balun WQM

Product Specifications



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 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