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Z-BAND

Z-Balun QAM

HDTV Over CAT5E, CAT6, CAT7 or Cable UTP

Z-Balun QAM
Product Specifications

Product Description

The *Z-Balun QAM* 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 *Z-Balun QAM* from a wall outlet is connected via a RJ-45 Jack and its output features an F-Connector and an auxiliary RJ-45 Jack for IP application.

Available in free-hanging configurations; a uni-directional (HZ 5002-1) capability for RF video only, or a bi-directional (HZ 5002-2) capability for video, data, and VOD applications.

Features & Benefits

Automatically senses horizontal Category cable distance as shown by LED indicators on free-hanging balun Adjusts proper TV receive level by inserting proper signal conditioning algorithm Provides unique identification impedance signature to *Z-Balun Distribution REG* for port activation DATA (DOCSIS)/FSK preamble activates the return path.

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com

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Model	HZ 5002-2
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
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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