

Z-Distribution REG Product Specifications



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Product Description

The 54 MHz to 860 MHz *Z-Distribution REG* video hub provides distribution of 134 ATSC analog channels or hundreds of digital channels including 1080 (i&p) HD channels over a structured Category cable system. The hub splits, amplifies, slopes, and recombines RF broadband signals. It also provides cascading capability for connecting to other hubs in a star topology, and bi-directional capability providing remote/reverse broadcasts from all drops.

The *Z-Distribution REGs* with their intelligent *Z-Baluns* are self-adjusting providing an overall plug-and-play distribution system. A 240 MHz pilot tone is controlled by Automatic Gain Control (AGC) circuits and serves as a reference signal to guarantee the consistency and level of output from each hub. The *Z-Balun* on the receive end of the horizontal Category cable also adjusts the signal levels to each TV according to their distance from the video hub.

Part #	ZBT0100030
Physical Description	<p>Weight: Approximately 6.5lbs</p> <p>Size: 12" L x 19" W x 3.5" H standard size enclosure with mounting ears Mounts in standard 19" rack / 2U High</p> <p>Three Status Indicator Lights: master (red), slave (green), power (red/green)</p> <p>Front Panel: 2 rows of shielded RJ-45 Jacks (24 per row)</p> <p>Rear Panel: 19 F-Connectors; 8 Outbound, 8 Inbound, 1 Cascade In, 1 Cascade Out, 1 CATV In 1 UTP outbound RF video on pins 7 & 8, return RF on pins 4 & 5, and shared sheath with 10/100 Ethernet on pins 1, 2, 3, & 6</p>
Electrical Power	<p>Input Voltage: 90-264 VAC auto sensing</p> <p>Input Current: 1.5/115 VAC, 1A/230 VAC (fused 2A)</p> <p>Input Frequency: 47 Hz to 63 Hz</p> <p>DC Power: Maximum 75 Watts</p> <p>Meets all safety standards: UL/CSA Listed</p> <p>UTP Outbound Power: 8 VDC / 0.5 watts are supplied to each UTP outbound port on pins 7 & 8</p> <ul style="list-style-type: none"> ➤ Power is switched to each individual port only when impedance signature from Z-Balun is recognized
Electrical Radio Frequency	<p>Bandwidth:</p> <ul style="list-style-type: none"> ➤ Forward: 54 MHz to 860 MHz ➤ DOCSIS/FSK modem/T-Channel Video Return Compatible: 5 MHz to 42 MHz <p>Pilot Tone:</p> <ul style="list-style-type: none"> ➤ Frequency: +23 dBmV on all eight coax Outbound ports on rear panel

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	<ul style="list-style-type: none"> ✓ Output Level: 23 dBmV on all 8 coax Outbound ports on rear panel ✓ Automatic Gain Control (AGC) ✓ Detect Frequency: 240 MHz ✓ Frequency Adjustment Range: 5 MHz to 860 MHz
System Performance	<p>C/N: greater than 43 dB CTB: greater than 50 dB (134 channel loading) CSO: greater than 51dB (134 channel loading) UTP Output Launch Level: 29 to 38 dBmV (54 MHz to 860 MHz) analog signals, and 23 to 32 dBmV for digital signals MER: greater than 32 dB</p> <p>CATV Input: 23 dBmV flat NTSC; +17 dBmV flat ATSC or QAM; and +20 dBmV flat</p> <ul style="list-style-type: none"> ✓ QAM for Cable Box Applications only ✓ Standard reverse up-stream path accommodates RF modem or remote T-Channel video return from 5MHz to 42 MHz
Environment	<p>Operating Temperature: 0 to 55° C Relative Humidity: 5 to 95% Storage Temperature: -40 to 70° C BTU/HR: Approx. 200</p>
Agency Standards	<p>UL/CSA Listed, FCC Regulations, Part 15 Compliant; Subpart B Compliant, TIA/EIA 568 A or B</p>