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Z-BAND

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Z-Distribution REG
Product Specifications

Product Description

The 54 MHz to 860 MHz *Z-Distribution REG* video hub provides distribution of 134 NTSC 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-Distribution* 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.

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Model	24 Port Hub
Return Path	**HZ 6001-1: No** **HZ 6001-1R: Yes**
Physical Description	**Weight:** Approximately 6.5lbs **Size:** 12" L x 19" W x 3.5" H standard size enclosure with mounting ears Mounts in standard 19" rack / 2U High **Four Status Indicator Lights:** master (red), slave (green), power (red/green) **Front Panel:** 2 rows of shielded RJ-45 Jacks (24 per row and 12 per row versions) **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
Electrical Power	**Input Voltage:** 90-264 VAC auto sensing **Input Current:** 1.5/115 VAC, 1A/230 VAC (fused 2A) **Input Frequency:** 47 Hz to 63 Hz **DC Power:** Maximum 75 Watts **Meets all safety standards:** UL/CSA Listed **UTP Outbound Power:** 8 VDC / 0.5 watts are supplied to each UTP outbound port on pins 7&8 　✔ Power is switched to each individual port only when impedance signature from Z-Balun is recognized
Electrical Radio	**Bandwidth:** 　✔ Forward: 54 MHz to 860 MHz
Frequency	✔ DOCSIS/FSK modem/T-Channel Video Return Compatible: 5 MHz to 42 MHz 　✔ "R-Series" Video Return: 54 MHz to 88 MHz **Pilot Tone:** 　✔ Frequency: +23 dBmV on all eight coax Outbound ports on rear panel 　✔ 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	**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 **CATVInput:** 23 dBmV flat NTSC; +17 dBmV flat aTSC or QAM; and +20 dBmV flat 　✔ 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 **"R-Series":** reverse up-stream path accommodates RF video return from 54 MHz to 88 MHz, channels 2-6
Environment	**Operating Temperature:** 0 to 55° C **Relative Humidity:** 5 to 95% **Storage Temperature:** -40 to 70° C **BTU/HR:** Approx. 200
Agency Standards	UL/CSA Listed, FCC Regulations, Part 15 Compliant; Subpart B Compliant, TIA/EIA 568 A or B