Z-Distribution FBR
Product Specifications

Z-Band Technologies | 848-B N. Hanover St., Carlisle, PA 17013
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Product Description

The 54 to 860 MHz *Z-Distribution FBR*, RF video hub distributes 134 NTSC/6 MHz channels or hundreds of HD/SD programs over a structured, “568” Category cable system. The video hub automatically splits, amplifies, slopes, and adjusts input and output signals to maintain level integrity. The back-bone cable can either be single-mode fiber (angle polished) and/or standard coax cascaded to other hubs in a star topology.

Fiber Option

Z-Band recommends using ZBT0100043 or ZBT0100042 with a built-in fiber optics receiver for all uni-directional fiber installations. If it is used, then the fiber input signal will be automatically adjusted to the appropriate level. Contact Z-Band for bi-directional fiber requirements.

Part #	24 Port Video Hub		12 Port Video Hub	
	ZBT0100041	**ZBT0100043** (Fiber Optic)	**ZBT0100040**	**ZBT0100042** (Fiber Optic)
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 **Three Status Indicator Lights:** master (red), slave (green), power status (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 mini USB connector • UTP outbound RF video on pins 7 & 8 • Return RF on pins 4 & 5 • Shared sheath with 10/100 Ethernet on pins 1, 2, 3, & 6 • 1 single-mode fiber connector *(available for ZBT0100043 and ZBT0100042 only)*			
Electrical Power	**Input Voltage:** 90-264 VAC auto sensing **Input Current:** 1.8A @ 100 VAC (2.0 A Fuse)			

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	Input Frequency: 47 Hz to 63 Hz **DC Power:** Maximum125 Watts **UTP Outbound Power:** 8 VDC on pins 7 & 8 Power is switched to each individual port only when impedance signature from Z-Balun is recognized
Electrical Radio Frequency	**Bandwidth:** - Forward: 54 MHz to 860 MHz using CAT 6 Cable (Call Z-Band for higher frequencies) - Recommended for Return Channel: IP generated and modulated to an available channel **Pilot Tone:** - Frequency: 240 MHz - Output Level: 23 dBmV on all 8 coax Outbound ports on rear panel - Automatic Gain Control (AGC) - Automatic Slope Control (ASC)
System Performance	**C/N:** greater than 43 dB **CTB:** greater than 50 dB (134 channel loading) **CSO:** greater than 51dB (134 channel loading) **MER:** greater than 32 dB **Auto Level:** - System can accommodate input signal of ± 3dB level - Slope can vary ± 3 dB from flat ***Recommended*:** **CATVInput:** 23 dBmV flat for analog, 23 dBmV anlog and 17 dBmV digital mixed, and 20 dBmV for digital only **Fiber Input:** Single-Mode -1 dBm to -4 dBm *(available for ZBT0100043 and ZBT0100042 only)*
Environment	**Operating Temperature:** 0 to 55° C **Relative Humidity:** 5 to 95% **Storage Temperature:** -40 to 70° C **BTU/HR:** Approx. 400
Agency Standards	UL/CSA Listed, FCC Part 15, Subpart B Compliant, ANSI/TIA-568-C Series

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