

# Z-Distribution FBR Product Specifications



# Z-Distribution FBR

## Product Specifications



### 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	<p><b>Weight:</b> Approximately 6.5lbs  <b>Size:</b> 12” L x 19” W x 3.5” H standard size enclosure with mounting ears  Mounts in standard 19” rack / 2U High  <b>Three Status Indicator Lights:</b> master (red), slave (green), power status (red/green)  <b>Front Panel:</b> 2 rows of shielded RJ-45 Jacks (24 per row and 12 per row versions)  <b>Rear Panel:</b></p> <ul style="list-style-type: none"> <li>✓ 19 F-Connectors: <ul style="list-style-type: none"> <li>8 Outbound</li> <li>8 Inbound</li> <li>1 Cascade In</li> <li>1 Cascade Out</li> <li>1 CATV In</li> </ul> </li> <li>✓ 1 mini USB connector</li> <li>✓ RJ-45 outbound RF video on pins 7 &amp; 8</li> <li>✓ Return RF on pins 4 &amp; 5</li> <li>✓ Shared sheath with 10/100 Ethernet on pins 1, 2, 3, &amp; 6</li> <li>✓ 1 single-mode fiber connector <i>(available for ZBT0100043 and ZBT0100042 only)</i></li> </ul>			
Electrical Power	<p><b>Input Voltage:</b> 90-264 VAC auto sensing  <b>Input Current:</b> 1.8A @ 100 VAC (2.0 A Fuse)</p>			

# Z-Distribution FBR

## Product Specifications



	<p><b>Input Frequency:</b> 47 Hz to 63 Hz</p> <p><b>DC Power:</b> Maximum 125 Watts</p> <p><b>RJ-45 Outbound Power:</b> 8 VDC on pins 7 &amp; 8 Power is switched to each individual port only when impedance signature from Z-Balun is recognized</p>
Electrical Radio Frequency	<p><b>Bandwidth:</b></p> <ul style="list-style-type: none"> <li>✓ Forward: 54 MHz to 860 MHz using CAT 6 Cable (Call Z-Band for higher frequencies)</li> <li>✓ Recommended for Return Channel: IP generated and modulated to an available channel</li> </ul> <p><b>Pilot Tone:</b></p> <ul style="list-style-type: none"> <li>✓ Frequency: 240 MHz</li> <li>✓ Output Level: 23 dBmV on all 8 coax Outbound ports on rear panel</li> <li>✓ Automatic Gain Control (AGC)</li> <li>✓ Automatic Slope Control (ASC)</li> </ul>
System Performance	<p><b>C/N:</b> greater than 43 dB</p> <p><b>CTB:</b> greater than 50 dB (134 channel loading)</p> <p><b>CSO:</b> greater than 51dB (134 channel loading)</p> <p><b>MER:</b> greater than 32 dB</p> <p><b>Auto Level:</b></p> <ul style="list-style-type: none"> <li>✓ System can accommodate input signal of <math>\pm 3</math>dB level</li> <li>✓ Slope can vary <math>\pm 3</math> dB from flat</li> </ul> <p><b>Recommended:</b></p> <p><b>CATV Input:</b> 23 dBmV flat for analog, 23 dBmV analog and 17 dBmV digital mixed, and 20 dBmV for digital only</p> <p><b>Fiber Input:</b> Single-Mode -1 dBm to -4 dBm (<i>available for ZBT0100043 and ZBT0100042 only</i>)</p>
Environment	<p><b>Operating Temperature:</b> 0 to 55° C</p> <p><b>Relative Humidity:</b> 5 to 95%</p> <p><b>Storage Temperature:</b> -40 to 70° C</p> <p><b>BTU/HR:</b> Approx. 400</p>
Agency Standards	<p>UL/CSA Listed, FCC Part 15, Subpart B Compliant, ANSI/TIA-568-C Series</p>