



Product Description:

The DVI-5312b is a digital repeater with one (1) DVI input and two (2) independent, re-clocked DVI outputs. All inputs and outputs are fully HDMI v1.3 compatible enabling full interoperability with both DVI and HDMI sources and displays. The unit accepts a single DVI or HDMI input signal, which is de-serialized, buffered and applied to two independent DVI compatible HDMI v1.3 transmitters at each output. The re-clocking function greatly reduces jitter in the output signal and ensures optimal picture quality and stability. The unit supports a full array of DVI and HDMI v1.3 features, which makes it the perfect solution for high-performance digital signal distribution in medium-size display systems.

Key Features:

- HDMI v1.3, HDCP v1.1, and DVI v1.0 compliant
- Supports 8-bit color, 10-bit, and 12-bit Deep Color modes
- Independent re-clocked outputs provides superior picture quality and stability
- Supports PC resolutions up to 1920x1200 pixels; supports HDTV resolutions up to 1080p
- Supports HDMI I/O signals using optional DVI to HDMI cables
- Input signal equalization feature enables longer cable runs
- Supports Dolby Digital, Dolby Digital Plus, Dolby True HD, and DTS-HD Master Audio
- EDID Management - automatic discovery of display EDID, or selection of internally stored EDID values
- Rugged metal enclosure - may be rack mounted using optional DVI-5300-RM kit
- Locking power supply connector for added security

Specifications:

Performance	
Compliance	HDMI v1.3, HDCP v1.1, and DVI v1.0
Maximum Pixel Clock Frequency	225 MHz
Maximum Video Bit Rate	2.25 Gbps (single-link)
Supported Color Depth	8-bit, 10-bit, and 12-bit
Digital Audio Support	Dolby Digital, Dolby Digital Plus, Dolby True HD, and DTS-HD Master Audio – only with HDMI v1.3 input signal
Supported HDTV Formats	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, and 2048x1080
Supported PC Resolutions	up to 1920x1200
Input Signal Equalization	+10 dB correction @ 825 MHz
Maximum Input Cable Length	12.5 meters (41 ft.) using DVI Gear SHR™ Series cables
Maximum Output Cable Length	10 meters (33 ft.) using DVI Gear SHR™ Series cables
I/O Connectors	
Input	1x DVI-D, 29-pin female connector
Outputs	2x DVI-D, 29-pin female connectors
Mechanical	
Dimensions (H-W-D)	1.85" x 8.6" x 5.4" (47 mm x 218 mm x 136.5 mm)
Weight	2.1 lbs. (950 g)
Environmental	
Storage Temperature	0° to 50°C (32° to 122° F)
Operating Temperature	0 to 50° C (32° to 122° F)
Humidity (storage / operating)	10% to 90% (non-condensing)
Power Requirements	
External AC Power Adaptor	Input: 100-240 VAC / 50-60Hz Output: +5VDC @2A
Regulatory Approvals	
Splitter	FCC, CE, RoHS, HDMI ATC
AC Power Adaptor	UL, CE, CSA, CEC, RoHS
Warranty	
Limited Warranty	3 Years Parts and Labor
Model Number	
DVI-5312b	DVI / HDMI (v1.3) 1x2 Splitter
Accessories Included	
1x External AC Power Adaptor, 1x User Guide	
Optional Accessories	
DVI-5300-RM Single/Dual Rack Mount Kit	