

# DVI Extender with IR and Optional Stereo Audio

XTENDEX®

## Extend a DVI display and IR signal up to 300 feet (91 meters) via One CAT5/6/7

- Transmits all signals over one CAT5/6/7 cable.
- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
  - Refer to the resolution chart in the specifications section for resolutions using different CATx cable types and lengths.
- Available with optional stereo audio.
- Full IR control of DVI source from remote HDTV using existing source remote control.
- HDCP compliant.
- Supports the DDC2B protocol.
- High quality, rugged steel construction with durable powder coat finish.
- Only one power supply is necessary to power both the local and remote units.



### XTENDEX® ST-C6DVIA-IR-300 (Remote and Local Unit)

The XTENDEX® DVI Extender transmits digital DVI video and IR signal up to 300 feet away from a DVI source over a single CAT5/6/7 cable. Each video extender consists of a local unit that connects to a single link digital DVI source and IR emitter, and a remote unit that connects to a DVI display and IR receiver.

## Specifications

### Local Unit

- Compatible with a computer or HDTV video source with DVI output.
- One female DVI-I connector.
  - Signal type: single link digital DVI.
- IR extension support: one female 3.5mm port for IR emitter.
- Optional stereo audio support: 3.5mm jack
- One female RJ45 port for sending/receiving high definition video, IR, stereo audio and DDC signals.
- Latency: 40 ns
- Jitter: 1.230 ns

### Remote Unit

- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
- One female DVI-I connector.
  - Signal type: single link digital DVI.
- IR extension support: one female 3.5mm port for IR receiver.
- Optional stereo audio support: 3.5mm jack.
- One female RJ45 port for sending/receiving high definition video, IR, stereo audio and DDC signals.
- Auto equalization for different lengths of CAT5/6/7 cable.

### Optional Stereo Audio

- Frequency response: 20 Hz to 20 kHz,  $\pm 1$  dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Stereo crosstalk: -70 dB.
- Input impedance: 10k Ohms.
- Line level output; supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).
- CD quality audio output.

### Dimensions

- WxDxH: 3.09x3.49x1.08 in (78.49x88.65x27.43 mm)

### Power

- Powered from a single power supply attached to either the local or remote unit.
- Local or remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)
- Power consumption: 10 W.
- Heat dissipation: 34 Btu/h.

### Cables

- Use DVI-IS-xx-MM cable to connect a DVI source or display.
- Use DVI-HDMI-xx-MM cable to connect an HDMI source or display.
- Use DPMM-DVIDF-CBL adapter cable to connect a Mini DisplayPort source or display.
- Use SA-xx-MM cable with units with stereo audio option to connect a stereo audio source or speakers.
- Use CAT5/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).
- IR transmitter/receiver included.

### Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -20 to 140°F (-30 to 60°C).
- Operating/storage relative humidity: 17 to 90% non-condensing RH.

### Regulatory Approvals

- CE, RoHS

### Warranty

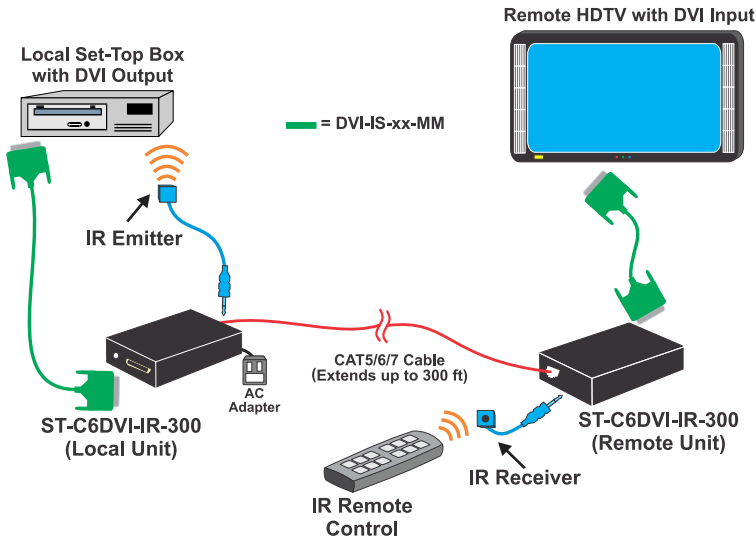
- Two years

# DVI Extender with IR and Stereo Audio Options

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## Configuration and Cable Illustration



### DVI Extender Models

NTI Part #	Supported Features
ST-C6DVI-IR-300	DVI + IR
ST-C6DVIA-IR-300	DVI + Stereo Audio + IR

Distances and Resolutions for CAT5/6/7 Cables		
Cable	Distance	Maximum Standard Resolution
CAT5e Solid	100 ft (30 m)	1080p/24Hz
		1920x1200/60Hz
		1080i/60Hz/12-bit
		720p/60Hz/12-bit
CAT5e Stranded UTP	100 ft (30 m)	1280x1024/60Hz
		720p/60Hz/12-bit
CAT6 Solid UTP	50 ft (15 m)	1080p/60Hz/12-bit
		1920x1200/60Hz
		1080p/60Hz/10-bit
	75 ft (22 m)	1080i/60Hz/12-bit
		1920x1200/60Hz
		1080p/60Hz/8-bit
	150 ft (45 m)	1600x1200/60Hz
		1080i/60Hz/12-bit
		1080p/24Hz
	200 ft (60 m)	1360x768/60Hz
		1080i/60Hz/12-bit
		720p/60Hz/12-bit
1080p/24Hz		
250 ft (76 m)	1360x768/60Hz	
	1080i/60Hz/8-bit	
	480p/60Hz/12-bit	
	480p/60Hz/12-bit	
300 ft (91 m)	800x600/75Hz/8-bit	
	800x600/75Hz/8-bit	
CAT6a Solid UTP	50 ft (15 m)	1080p/60Hz/12-bit
		1920x1200/60Hz/8-bit
		1080p/60Hz/10-bit
	75 ft (22 m)	1920x1200/60Hz
		1080i/60Hz/12-bit
		1080p/60Hz/10-bit
	100 ft (45 m)	1920x1200/60Hz
		1080i/60Hz/12-bit
		1080i/60Hz/12-bit
	200 ft (60 m)	1360x768/60Hz
		720p/60Hz/12-bit
		1080i/60Hz/8-bit
250 ft (76 m)	1024x768/60Hz	
	480p/60Hz/12-bit	
	480p/60Hz/10-bit	
300 ft (91 m)	1024x768/60Hz	
	1024x768/60Hz	
Flat CAT7 Stranded STP	50 ft (15 m)	1080p/60Hz/36-bit
		1920x1200/60Hz
	100 ft (30 m)	1080i/60Hz/36-bit
CAT7 Solid STP	200 ft (60 m)	1920x1200/60Hz
		1080p/60Hz/8-bit
		1080i/60Hz/12-bit
	279 ft (85 m)	1080p/24Hz
		1024x768/60Hz
		1080i/60Hz/8-bit
		480p/60Hz/12-bit