1000ft VGA-Audio Extender via CAT5

Mini Sender   Mini Receiver   Tiny Receiver

Features & Applications

The EasyTool™ mini VGA-Audio Extender and tiny Remoter transmit VGA-Audio up to 100/1200 feet away from a computer using CAT5/5e/6 cable. The VGA-Audio extender consists of a local unit that connects to a computer and also supplies VGA video and stereo audio to a local monitor and speaker, and a remote unit that connects to a monitor and speaker. The mini VGA-Audio extender and tiny remoter uses +9V to +12VDC external adaptor power, mini extender has mounting holes in metal case.

- Sharpest and clearest VGA quality over CAT5 of any manufacturer.
- Hi performance Audio quality over CAT5 of any manufacturer
- Supports local and remote VGA monitors and Speakers.
- Real Time Transmission Video & Audio signals by single CAT5 cable
- No TCP/IP protocol and networking setting and maintenance
- No Ant firewall needed, no IP and networking occupation
- Plug and Play, compatible with all format VGA video signals.
- Available with contract and RGB brightness adjustment(Mini Receiver only)
- Use in-house CAT5/5e/6 phone wiring to locate a monitor remotely.
- Power-red LED. Metal case (Sender, Remoter)

Local Unit – Transmitter/Sender

- Supports a PC, SUN, MAC or PC Switch.
- Female 15-pin HD connector for computer connection.
- Stereo audio support - 3.5mm stereo plug.

Local Access
- Crisp and clear 640X480 to 1920x1440 video resolutions.
- Female 15-pin HD and 3.5mm stereo connectors for local VGA monitor and speaker.

Power
- +9V to +12V DC/500mA via AC/DC adapter

- 3.5mm male stereo audio cable
- Power consumption: 2W

Cables
- CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

Dimensions:
- WxDxH (mm): 95x97x28 (Mini Sender)
- Weight: 550g (Mini Sender)
- Mounting holes in metal case(Mini Sender)

Regulatory Approvals
- CE / FCC RoHS

Remote Unit- Receiver/Remoter

- Supports resolutions from 640X480 up to 1920x1440; refer to the resolution charts below for resolutions at different lengths.
- Female 15-pin HD connector.
- One 3.5mm connector for audio output connection.
- Both Mini and Tiny VGA Remoter can support POE solution (optional)

Video Quality and Adjustment
- Mini VGA Audio Remoter: video quality brightness, contract adjustment for different lengths of CAT5/5e/6 cable is done manually.
- Tiny VGA Audio Remoter (50/100m): no adjustment needed.

Power
- Mini VGA Audio Remoter, Tiny VGA Audio Remoter
  +9V to +12V via AC/DC adapter (Included).
- Power consumption: 1W (Tiny Receiver)   2W (1to 2/4 Receiver)

Dimensions:
- WxDxH (mm): 64x45x23 (Tiny Remoter)
            95x97x28 (Mini Remoter)
- Weight: 300g/550g
- Mounting holes in metal case(Mini Remoter)

Local & Remote Unit Environmental
- Operating temperature: 32°F to 100°F (0°C to 38°C).

- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 – 90% non-condensing RH.

Regulatory Approvals
- CE /FCC RoHS

Audio Specification

- Stereo/Audio can be heard both locally and remotely.
- Frequency response: 20 Hz to 20 kHz, +/-1 dB.
- Signal-to-Noise Ratio (SNR): 76 dB.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Input impedance: 10k Ohms.
- Line level 640ohm output; supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).

Single, Mini VGA –Audio Remoter – 600ft Distances and Resolutions for CAT5/CAT5e and CAT6 cables		
Cable	**Distance (feet)**	**Resolution**
CAT5/ CAT5e (UTP)	600	1024x768 at 60Hz
	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	100	1920x1440 at 60Hz
CAT5/ CAT5e(STP), CAT6(UTP)	300	1024x768 at 60Hz
	200	1280x1024 at 60Hz
	100	1920x1440 at 60Hz

Single, Mini VGA –Audio Remoter -1200ft Distances and Resolutions for CAT5/CAT5e and CAT6 cables		
Cable	**Distance (feet)**	**Resolution**
CAT5/ CAT5e (UTP)	1200	1024x768 at 60Hz
	800	1280x1024 at 60Hz
	600	1600x1200 at 60Hz

	200	1920x1440 at 60Hz
CAT5/ CAT5e(STP), CAT6(UTP)	600	1024x768 at 60Hz
	400	1280x1024 at 60Hz
	200	1920x1440 at 60Hz

Note: CAT6 cable has a higher skew than CAT5/5e cable, which causes colors to smear. Since these extenders do not have internal skew compensation, they work at shorter distances with CAT6 cable. We recommend our client use CAT5/5E UTP pure copper cable for this kind of AV extension application.

Electronics Specification

- Video Input/Output :HDB-15 Female (75ohm load)
- Video Input Signal: 0.5Vp-p - 1Vp-p   Single End
- Video Output Signal: 0.5Vp-p -1Vp-P   Single End (75ohm load）
- Video Transmission Distance: 100-1200ft (CAT5/5E/6 cable)
- Audio Input: 3.5mm Stereo Female Socket
  Audio Output: 3.5mm Stereo Female Socket
  Audio Input: 1Vp-p – 2Vp-p Single End
- Audio Output: 1Vp-p – 2Vp-P Single End（300/640 ohm load）
- Audio CMRR: -80dB @1kHz
- Video CMRR: -55dB @1MHz
- Audio Transmission Distance: 100-1200ft (CAT5/5E/6 cable)
- External Power Supply: +9V to +12V DC

VGA-Audio CAT5 Extender System Configuration Diagram

Mini VGA Extender 300-1000ft Distance CAT5 Cable System Configuration Diagram