

1200ft VGA-Audio Extender via CAT5

VGA Extender CAT5 Monitor Extender,
Remoting Monitor Extend Video Audio
POE VGA Extender - No power supply needed on remote unit

PRODUCTS CATALOG

VGA Audio Transmitter/Broadcasting Transmitter



1 CH VGA-Audio CAT5 Mini Transmitter, Mounting/EasyTool™



Single Port VGA-Audio CAT5 Transmitter



1-02 Port VGA-Audio CAT5 Transmitter



1-03 Port VGA-Audio CAT5 Transmitter



1-04/5/6 Port VGA-Audio CAT5 Transmitter



1-08 Port VGA-Audio, 19" 1U Rack Mounting / Mini Transmitter



1-16 Port VGA-Audio CAT5 Transmitter, 1U 19" Rack Mounting



Dual Channel VGA-Audio Central Office Transmitter



Quad CH VGA-Audio Central Office Transmitter, 1.4U 19" Rack Mounting

VGA Audio Transmitter/Broadcasting Receiver

1

2



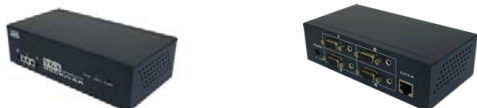
1 CH VGA Audio CAT5 Mini Receiver (EasyTool™)



1CH VGA Audio CAT5 Tiny Receiver (EasyTool™)



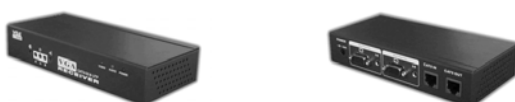
1-2 Port VGA-Audio CAT5 Split Receiver



1-4 Port VGA-Audio CAT5 Split Receiver



1-4+2Port VGA-Audio CAT5 Extension Repeater



1-2 Port VGA-Audio CAT5 Bus Node Receiver



1-4 Port VGA-Audio CAT5 Bus Node Receiver

Welcome! This category contains detailed information for VGA Transmitter Receiver/ Repeating Receiver and Audio Extender products.

Features & Applications

The CAT5-Link™ and VGA-Link™ VGA-Audio Extender transmit VGA-Audio up to 600/1200 feet away from a computer using CAT5/5e/6 cable. Each video 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. 1to 1/2/3/4port VGA-Audio transmitter has PC-USB powering and external adaptor power dual power supply modes, 1 to 5/6port and 1to 8port select external adaptor power, 1to 8/16port rack mounting modes select 220V/110V power supply, all products are used 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 Speaker.
- 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.
- Built-in ESD and surge protection.
- Available with VGA contact and RGB brightness adjustment
- Available with stereo audio and volume adjustment
- Optional RS232 support - male 9-pin D connector.
- Power-red LED, (optional: VGA-green LED, audio-yellow LED indicators)
- Use in-house CAT5/5e/6 phone wiring to locate a monitor remotely.
- Metal case (Transmitter, Receiver and Repeating Receiver)

3

4

Local Unit

Host Connection

- Supports a PC, SUN, MAC or PC Switch.
- Male 15-pin HD connector for computer connection.
- Stereo audio support - 3.5mm stereo plug.
- USB2.0 cable from PC to male 4-pin D USB connector
- Optional RS232 support - female 9-pin D connector.

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.
- Stereo audio input - 3.5mm stereo jack.
- Optional RS232 support - female 9-pin D connector
- Use an optional VGA adapter to connect S-Video or RCA/YPbPr displays.

Power

- Single, 1-2/3/4/5/6/8(mini) port VGA Audio Transmitter:
 - +9V to +12V DC/500mA via AC/DC adapter
 - 220 or 110 VAC at 50 or 60 Hz via AC adapter (1to 8/16port rack mounting mode)
 - USB2.0 cable (Single, 1-2/3/4 mini mode include)
 - 3.5mm male stereo audio cable
 - Power consumption: Single, 1-2/3/4port, 1-2W
1-5/6/8 port, 2 CH Central Office Tx, 2W
4 CH Central Office, 1to8/16port 4/5/10W

MTBF

- Single CH: 89,708 hrs, 1-2 Port Tx: 87,744 hrs, 1-3 Port Tx: 85,338 hrs, 1-4Port Tx: 82,988 hrs, 1-5Port Tx: 89,874 hrs, 1-6Port Tx: 81,783 hrs, 1-8Port Tx: 80,831 hrs, 1-8Port Rack: 79,817 hrs, 1-16Port Rack: 79,831 hrs, 2CH CO TX: 84,713 hrs, 4CH CO Tx: 85,197 hrs

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 Transmitter)
160/181/196/215x84x33 (Single, 1-2/3/4/5/6Port)
155x84x55 (1-8Port mini Tx)
19" 1U, (1to 8/16Port Tx)

160x84x55 (2CH CO Tx)
1.4U 19" (4CH CO Tx)

- Weight: 850/900/1200/1500g (Single, 1 to2/3/4/5/6 Tx)
1500g (1to 8Port Tx)
3800g/5200g (1to8/16Port Tx Rack Mounting)

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

Remote Unit

- Supports resolutions from 640X480 up to 1920x1440; refer to the resolution charts below for resolutions at different lengths.
- 1/2/4 Female 15-pin HD connector's connectors.
- 2 3.5mm connectors for stereo audio output connection.
- Optional male 9-pin D connector for RS232
- Use an optional VGA adapter to connect S-Video or RCA displays.

Video Quality and Audio Adjustment

- 1-2/4Port Receiver, Mini VGA Audio Receiver, EasyTool™: video quality brightness, contract adjustment for different lengths of CAT5/5e/6 cable is done manually for video-audio or video/RS232 extender.
- Tiny VGA Audio Receiver, EasyTool™ (30/60/100m): video quality and audio, no adjustment needed.

Power

- 1to 2/4 VGA Audio Receiver (Bus Node Repeater), Mini VGA Audio Receiver (ToolFree™), Tiny VGA Audio Receiver (Adaption™) +9V to +12V via AC/DC adapter (Included).
- Power consumption: 0.5W (Tiny Receiver)
2/3W (1to 2/4 Receiver (Repeater))
- POE VGA Receiver (100m/300ft): powered from local unit via CAT5/5e/6 cable, 300ft.

MTBF

- Single CH Rx: 81,625 hrs, 1-2Port Rx: 81,214 hrs, 1-4Port Rx: 80,676 hrs, Mini Rx: 80,481 hrs, Tiny Rx: 79,714 hrs, 1-2Port Repeater: 78,771 hrs
1-4Port Repeater: 77,921 hrs, 1-2Port Receive/4Port Tx Repeater: 78,631 hrs

Dimensions:

- WxDxH (mm): 64x45x23 (Tiny Receiver)
95x97x28 (mini Receiver)
160x84x33/55 (Single, 1-2/4 Receiver)
181x84x33/55 (1-2/4 Repeater)
360x84x33 (1-2VGA+4Tx, Daisy Chainable Repeater)
- Weight: 900/1200/1500/2800g

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

- Baud rate up to 56000.
- Support for a touch screen monitor.

Single, Mini Rx, 1to2Port VGA Receiver -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 Rx, 1to2Port VGA Receiver -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

AUDIO SPECIFICATION

- Available on 1to 2Port Receiver, Repeater, and 1to 4 Rx/RPT.
- Stereo audio can be heard both locally and remotely.
- Frequency response: 20 Hz to 20 kHz, +/-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 640ohm output: supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).

RS232 CONTROL

- Available on VGA-RS232 Model.
- Supports TXD, RXD, DTR, DSR, CTS and RTS.

VGA / Audio Extenders

Supported Features	Part #	Maximum Extension (ft.)	Price \$	# to Buy	Download a PDF Manual
VGA only		1200		0	
VGA + audio		1200		0	PDF Manual
VGA + RS232		600		0	
VGA only		600		0	PDF Manual
VGA + audio		300		0	

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.

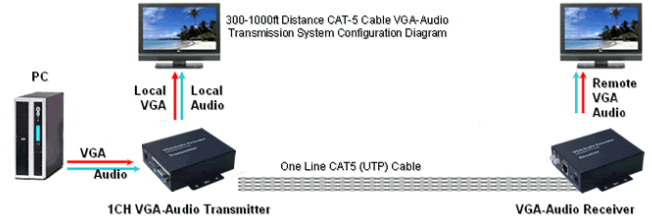
Electronics Specification

- Video Input :HDB-15 Male
- Video 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: 2 3.5mm Stereo Female Socket (1-2Port Receiver)
- 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
- 110V or 220V AC (1U,1.4U, 19" Rack Mounting Model)

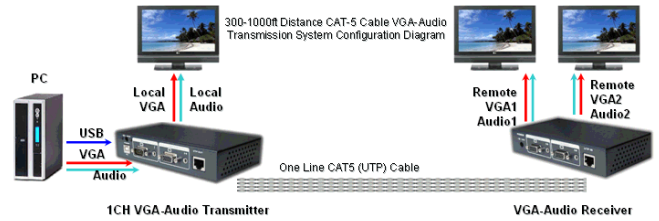
VGA-Audio CAT5 Extender System Configuration Diagram

9

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

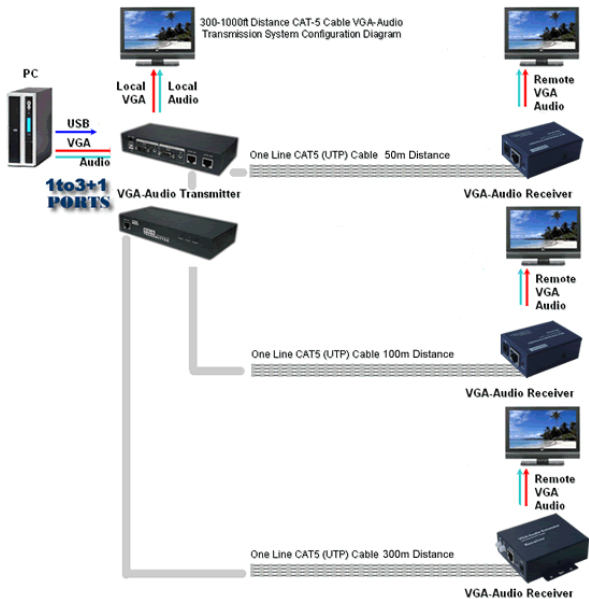


VGA Audio Extender 300-1000ft Distance CAT5 Cable System Configuration Diagram



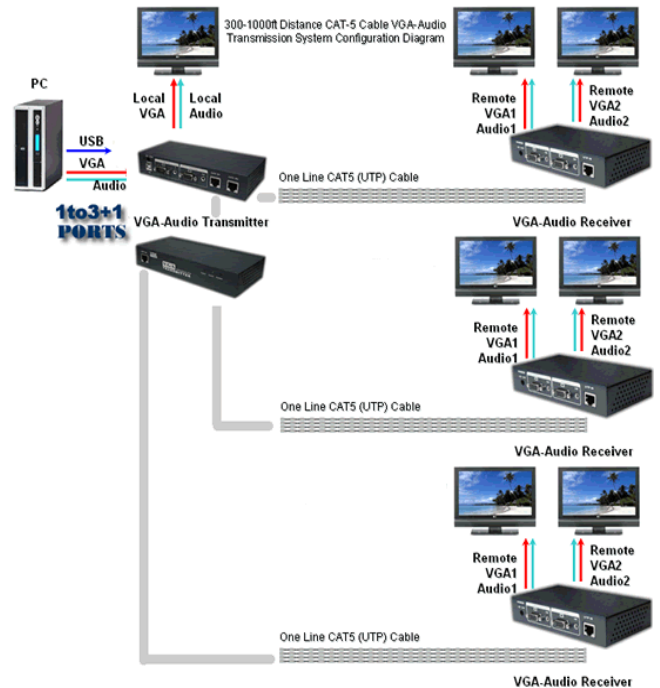
10

VGA Audio Tx- Mini & Tiny Receiver 300-1000ft Distance CAT5 System Diagram



11

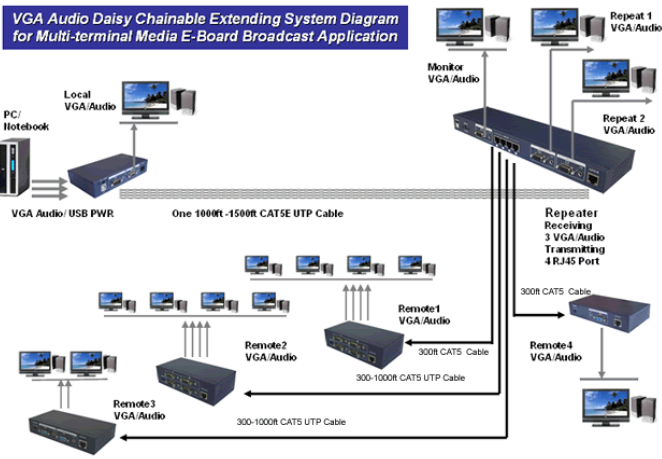
1-3Port Tx/1-2Port Rx 300-1000ft Distance CAT5 Cable System Configuration Diagram



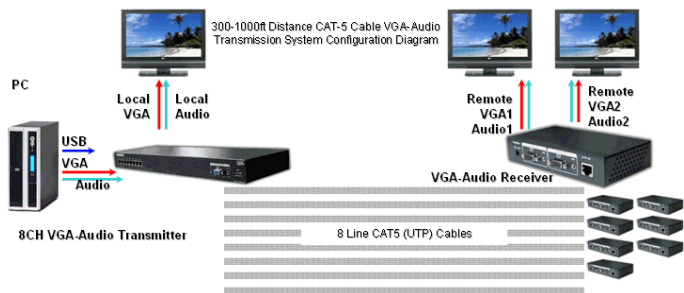
12

1-2VGA+4RJ45 Repeating 300-1500ft Distance CAT5 Cable Daisy Chain System

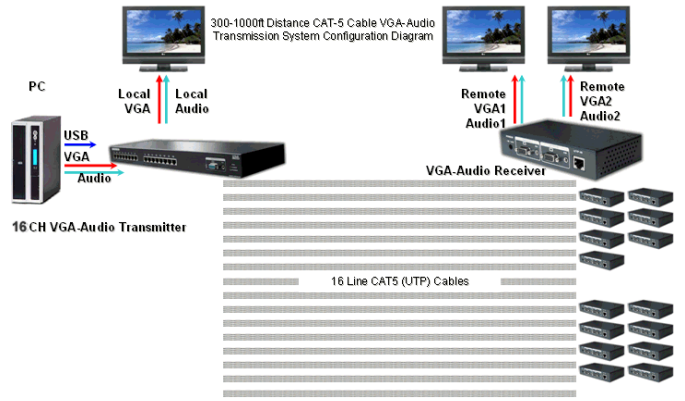
VGA Audio Daisy Chainable Extending System Diagram for Multi-terminal Media E-Board Broadcast Application



1-8Port Tx/ 1-2Port Rx 300-1000ft Distance CAT5 Cable Daisy Chain System Diagram



1-16Port Tx/1-2Port Rx 300-1000ft Distance CAT5 Cable Diagram Application



Single Tx/1-2Port Rx Bus Nodes Cascaded Repeating 300ft Distance CAT5 Cable

