VGA AUDIO EXTENDER SERIES

50M – 300M

- 1 ROAD
- 2 ROAD
- 4 ROAD

INTRODUCTION

This VGA and Audio Twisted Pair Cable Extender system is designed for long distance transmission of medium and high quality VGA and Audio signal, integrated with VGA signal convert、splitter、drive、receive and revert. It's widely used in the following display system project: security、finance、electric power、transportation、stage display、news release、advertisement display project、industry automation、medical equipment、CCTV、multi–media teaching and so on.

With excellent transmission quality, no tail, no ghosting, all–metal casing, with anti–static, anti–thunder, anti–interference capabilities, and easy to use, plug and play, support all operation systems. High Definition video signal transfer 50–100–200–300 meters, remote images are still clear.

VGA and Audio Twisted Pair Cable Extender system transform VGA signal through non–shielded Cat5e in order to enhance common–mode noise and interference signal suppression, while significant cost savings and simplify the project cables wiring. Using patented technology to encode the H and V signals to RGB signals sent after increasing only the use of CAT–5 twisted pair cable to complete VGA, SVGA, XGA, WXGA, SXGA balance of the RGBHV

Dear customer

Thank you for choosing VGA and Audio Twisted Pair Cable Extender which owns the performance of safety、reliability and excellent quality, greatly extending the application of your VGA and Audio. Our VGA extender will let you enjoy the convenient and joy by using the advanced technology, such as difference technology、impedance trans–formation technology、out equilibrium technique、dynamic gain technology、transient suppression technique.

In order to suit your volatile demand and provide the best cost–effective products for you, we can provide three series of extender at present: 1 road extender, 2 roads and 4 roads extender, separately each series have products which can extend 50 m, 100 m, 200 m and 300 m, they can greatly improve your work efficiency and reduce the cost of purchasing.

To let you enjoy VGA and Audio Twisted Pair Cable Extender System of "Customer First" high quality services, we adopt advanced equipments, professional technical personnel serve for you with all sincerity, and will continue to provide products and technical consultation. Welcome to contact us at any time, and hope your continuous support.

signal encoding and decoding, and increased compensation for the use of remote high–frequency processing, bandwidth up to 700MHz, at a fixed 2db gain, easy to reach 450MHz. The receiver uses the industry's unique balance of the input signal buffer, ground isolation, variable gain amplifier, balanced / unbalanced conversion, weighted balance of five sections of pole compensation, the common mode signal recovery, the output gain adjustment, synchronization signal decoding, high–fidelity video multi–level distribution of broadcast quality video signal processing technology, but also with continuous brightness and contrast control to VGA signal transmission distance of up to 50–100–200–300 m, the maximum resolution can be 1920 * 1440 @ 60Hz (recommended use of the bandwidth control in 300MHz or less) to meet the large–scale projects projectors, Monitors, TFT–LCD TV, PDP signal transmission needs.

As the entire transmission system uses a weighted balance of zero transmission split patented technology, so when the twisted pair is not in the transmission of external signals cause EMI interference.

1 Road VGA Audio Extender series

Power Specification:

Functions	50m	100m	200m	300m
Transmitter	USB power supply	USB power supply	DC5V	DC5V
Receiver	DC5V	DC5V	DC5V	DC5V

This series products convert VGA and Audio input to one road local monitoring signal and one road Twisted Pair Cable Extending signal, transfer to 50–100–200–300 meters through Twisted Pair Cable (Lan RJ45), the diagram as below:

50M/100M Extend:

Transmitter:

Front View

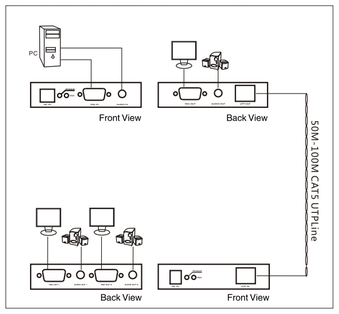
Back View

Receiver:

Front View

Back View

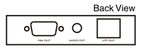
VGA EXTENDER DIAGRAM: 50M / 100M



200M/300M Extend:

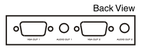
Transmitter: Front View

Back View

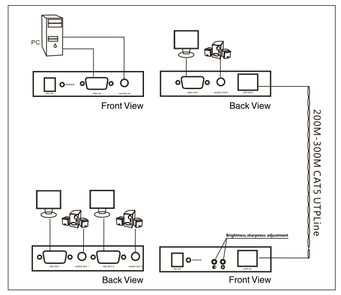


Receiver: Front View

Back View



VGA EXTENDER DIAGRAM: 200M / 300M



Specification of Transmitter

Functions		
Input	VGA Video	1Rd
	Stereo Audio	1Rd
Input Impedance	VGA Video	75Ω
	VGA synchronize	4.7KΩ
	Stereo Audio	5Ω
Input Level	VGA Video	0.7Vpp
	VGA synchronize	TTL
	Stereo Audio	0.75Vpp
Output		1Rd RJ45
Local Monitor/Output Extension		VGA+AUDIO

Specification of Receiver

Functions		50m、100m、200m、300m
Input RJ45		1Rd
Output	VGA Video	2Rd
	Stereo Audio	2Rd
High Compensation		9 0 – + 6dB
Gain Compensation		1–2

2 Road VGA Audio Extender series

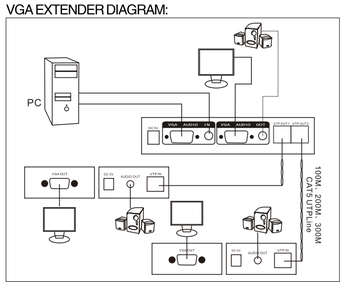
This series products built in 2 roads splitter, convert VGA and Audio input to one road local monitoring

signal and two roads Twisted Pair Cable Extending signal, transfer to 100–200–300 meters at two places through two pcs of Twisted Pair Cable (Lan RJ45), the diagram as below:

Transmitter:

Receiver: Front View Back View

VGA EXTENDER DIAGRAM:



Specification of Transmitter

Functions		
Input	VGA Video	1Rd
	Stereo Audio	1Rd
Input Impedance	VGA Video	75Ω
	VGA synchronize	4.7KΩ
	Stereo Audio	5Ω
Input Level	VGA Video	0.7Vpp
	VGA synchronize	TTL
	Stereo Audio	0.75Vpp
Output		2Rd RJ45
Local Monitor/Output Extension		VGA+AUDIO
Power		DC5V

Specification of Receiver

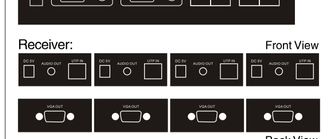
Functions		
Input RJ45		1Rd
Output	VGA Video	1Rd
	Stereo Audio	1Rd
High Compensation		9 0 – + 6dB
Gain Compensation		1–2
Power		DC5V

4 Road VGA Audio Extender series

This series products built in 4 roads splitter, convert VGA and Audio input to one road local monitoring signal and four roads Twisted Pair Cable Extending signal, transfer to 100–200–300 meters at four places through four pcs of Twisted Pair Cable (Lan RJ45), the diagram as below:

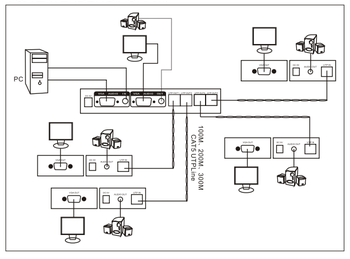
Transmitter:

Receiver: Front View



Back View

VGA EXTENDER DIAGRAM:



Specification of Transmitter

Functions		
Input	VGA Video	1Rd
	Stereo Audio	1Rd
Input Impedance	VGA Video	75Ω
	VGA synchronize	4.7KΩ
	Stereo Audio	5Ω
Input Level	VGA Video	0.7Vpp
	VGA synchronize	TTL
	Stereo Audio	0.75Vpp

Output		4Rd RJ45
Local Monitor/Output Extension		VGA+AUDIO
Power		DC5V

Specification of Receiver

Functions		
Input RJ45		1Rd
Output	VGA Video	1Rd
	Stereo Audio	1Rd
High Compensation		9 0 – + 6dB
Gain Compensation		1–2
Power		DC5V

Notice:

Unshielded twisted pair: 24~16AWG (0.5~1.3mm), Shielded twisted pair transmission distance will be shortened.

As a result of super–suppression circuit ground potential difference, the equipment with out grounding requirements.

Prohibited to disassemble or repair, if the seal is artificially damaged, no warranty.

Prohibited to hot plug signal interface, in order to avoid equipment damage.

Prohibited to water the equipment.