Manual and Installation guide

CatX Mini VP and CatX Mini AV

Cat5/6 extenders

VP series: VGA video and Power over Cat5/6 UTP cable

AV series: VGA video and Audio over Cat5/6 UTP cable

Product	Connectors
CatX Mini AV Tx	15HD Male, RJ45 with power & Status LED, 1.3mm DC Jack, 3.5mm stereo Jack
CatX Mini AV Rx	15HD female, RJ45 with power & Status LED, 1.3mm DC Jack, 3.5mm stereo Jack
CatX Mini VP Tx	15HD Male, RJ45 with power & Status LED, 1.3mm DC Jack
CatX Mini VP Rx	15HD female, RJ45 with power & Status LED, 1.3mm DC Jack

Overview - CatX Mini VP Tx/Rx

CatX Mini VP provides a unique solution for transmitting VGA video and power over Cat5/6 UTP cable up to **150m**, powered directly from the VGA source.

An optional external power supply can be used if the VGA source is not DDC2B compliant. **CatX Mini VP** units are Video compatible with **CatX Mini AV** transmitters and receivers. If **CatX Mini VP Rx** units are used with **CatX Mini AV** transmitters, then an external power supply will be required.

Overview - CatX Mini AV Tx/Rx

CatX Mini AV units provide a unique solution for transmitting VGA video and audio over Cat5/6 UTP cable up to **150m**. **CatX Mini AV** receiver units always require an external power supply. All **CatX AV** units are Video compatible with **CatX Mini VP** transmitters and receivers.

Part 1

Connecting to the transmitter (Tx) unit

The **Transmitter** unit may be connected to a VGA source directly. Use the thumbscrews on the unit to secure the transmitter to the VGA source output.
A great feature of the **VP** and **AV** transmitter units is that they can be powered directly from the VGA output, as long as the VGA output is **DDC2B** (or later) compliant.

Green Power LED on the RJ45 connector

When the green LED is on, the transmitter is powered.

Orange status LED on the RJ45 connector

The orange LED on the RJ45 connector will be on when a VGA source signal is detected. This LED will not be lit when the VGA source computer is inactive or in ‘sleep’ mode.

How do I know if the VGA will supply power to the transmitter unit?

If you use a VGA source output that is DDC2B (or later) compliant, both the **VP** and **AV** transmitter unit will be completely powered by the VGA source.

If you need to check that the VGA source can power the transmitter, plug the **CatX Mini VP** or **CatX Mini AV** transmitter unit into the VGA source when it is switched on. If the **green** LED on the transmitter RJ45 connector is on, then no external power supply is required.

Audio (**CatX mini AV transmitter only**)

A stereo audio source may also be connected to the unit, using the audio input socket on the **CatX Mini AV** unit, if required. An audio cable is supplied with each **CatX Mini AV** transmitter.

Part 2

Connecting the receiver (Rx) to a Display device

The **CatX Mini Rx** unit may be connected to any display device that has a VGA input. Simply attach **CatX Mini Rx** unit to the display VGA cable.

Green Power LED on the RJ45 connector

When the green LED is on, the receiver is powered.

Orange status LED on the RJ45 connector

The orange LED on the RJ45 connector will be on when a VGA source signal is detected. This LED will not be lit when the VGA source computer is inactive or in 'sleep' mode.

The **CatX Mini VP Rx** unit can be powered via the Cat5/6 cable connected to the transmitter unit.

The **CatX Mini AV Rx** unit always requires an external power supply in order to operate. The correct power supply is provided.

Tune control (Distance adjustment)

There is a Tune control on both **AV** and **VP** Receiver units. This control is best accessed using a small flat blade (nominally 3mm) screwdriver. The Tune control should be adjusted to ensure the best quality display at any length of Cat5/6 cable up to 150m. Turn the Tune control anti-clockwise for shorter distances and clockwise for longer distances.

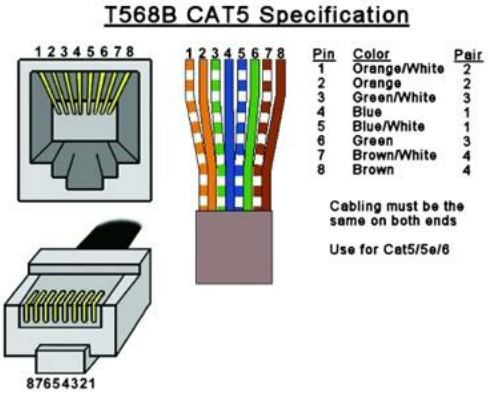
Audio (**CatX mini AV receiver only**)

Stereo audio speakers may also be connected to the unit, using the audio output socket on the **CatX Mini AV Rx**, if required.

Please note: Audio output is not available if a **CatX Mini AV Rx** receiver unit is connected to a **CatX Mini AV Rx** transmitter unit.

Termination of UTP cable

CatX units may be damaged or fail to operate unless the units are connected together using UTP cable that has been correctly terminated, as shown below. Any structured cable used for connection to CatX units must not be connected to any other network (Data or Voice). **Do not connect** CatX units using a crossover patch cable.



VGA Resolutions

Resolution	1280x1024	1600x1200	1920x1440	2048x1536
Cat5/6 distance	150m	100m	60m	40m

Technical Specification

	CatX Mini AV Tx	**CatX Mini AV Rx**	**CatX Mini VP Tx**	**CatX Mini VP Rx**
Maximum Distance	150m of Cat5/5e/6/7/8 UTP cable			
VGA Video	75 Ohms input/output VGA --- UXGA compatible; 1080P compatible RGBHV, RGSB, YUV, Y/C, CVBS formats supported Separate or composite HV; Horizontal 15-130KHz; Vertical 30-150Hz			
Audio input	Stereo unbalanced, Max. 3.5V p-p		×	×
Audio output	Summed Stereo		×	×
External Power	Optional	5V @ 0.05A	Optional	Optional
Housing (W x L x H)	Chrome plated steel- 34mm x 54mm x 16.5mm			
Operating Temp.	0 - 50 ^{o}C non Condensing			

Product codes and accessories

	Product	**Part Number**	
CatX Mini AV (CX-S1-AV)	CatX Mini Tx AV	CX-0M-AV-T	Please specify PSU type by replacing ** with the following codes. UK - UK 3 pin EU - European Schuko US - US 2 pin
	CatX Mini Rx AV	CX-0M-AV-R	
	3.5 Jack audio cable	CA3.5J-300S	
	5V PSU (1.3mm plug)	PS-5V1A-1.3-**	
CatX Mini VP (CX-S1-VP)	CatX Mini VP Tx	CX-0M-VP-T	For a full range of CatX products, contact your supplier.
	CatX Mini VP Rx	CX-0M-VP-R	
Optional extras	USB 5V supply 0.35m	P-USB-1.3-350	
	USB 5V supply 0.7m	P-USB-1.3-700	

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