

CatX AVP Transmitters (2, 4 and 8 outputs)

Manual and Installation guide



Cat5/6 extenders

Audio + VGA Video distribution cat5/6 UTP Cable

CatX AVP transmitters

CatX AVP transmitters provide a cost effective and flexible solution for transmitting either Audio+Video (AV) or Video+Power (VP) over a single Cat5/6 UTP cable up to 300m.

CatX AVP transmitters can be cascaded together to provide required number of outputs. Designed for reliability and low power consumption, with less than 0.2W per output.

CatX AVP transmitters are Video compatible with all CatX AVP Receivers, CatX AVP Repeaters and CatX Mini Receivers.

Selecting AV (Audio + Video) or VP (Video + Power) modes

CatX AVP units can be configured to transmit Audio+VGA video (AV) up to 300m or VGA Video+Power (VP) up to 150m over Cat5/6 UTP cable.

Use the mode select switch on the front of the **CatX AVP Tx2** transmitter to select either AV or VP mode for both outputs.

Use the switches on the rear of the **CatX AVP Tx4** and **CatX AVP Tx8** units to select either AV or VP mode for each bank of four outputs as indicated in the following table:

DIP switch settings on the CatX AVP Tx4 and Tx8 transmitters

		Switch 1 Bank 1 (1-4)	Switch 2 Bank 2 (5-8)
AVP Tx4	UP	AV	–
	DOWN	VP	–
AVP Tx8	UP	AV	AV
	DOWN	VP	VP

Connecting the VGA Source to the Transmitter

Using the VGA male/female cable supplied, connect the AVP transmitter unit (VGA IN) to the VGA source (PC or player). A local monitor can be attached to the VGA OUT of the AVP transmitter.

Transmitter Power Options

CatX AVP Tx2 transmitter unit can be powered directly from any DDC2B compliant VGA output. In VP mode, the **CatX AVP Tx2** can also power two CatX Mini VP Rx units.

The **CatX AVP Tx4** must be powered by either a USB power take-off lead, or an external 5V PSU.

The **CatX AVP Tx8** transmitter must be powered from an external 5V PSU.

Please Note: If at least 1 bank (4 outputs) of a **CatX AVP Tx8** unit is set to AV mode, then it is possible to power the Tx8 transmitter using a USB power lead.



Audio (AV mode only)

A stereo audio source may also be connected to the transmitter unit, together with a local output. Audio will be transmitted to the receivers from ports selected for AV mode.

Connection of CatX units to Cat5/6 UTP cable

Before connecting any Cat5/6 UTP cable to the outputs of your AVP transmitter unit, please refer to the 'UTP cable Termination' section of this manual.

Cascade Option

The VGA output as well as the Audio output of these transmitters can be connected to the VGA & Audio inputs of the next transmitter. In this way up to 8 transmitters can be cascaded together, providing RJ45 UTP outputs from 2 ports to 64 ports.

Rack Mount Option

CatX AVP transmitters may be rack mounted (2 per unit) or wall mounted for convenience. There are two options; a standard kit for Tx2 transmitters or a wide kit for Tx4/8 transmitters.

CatX units Compatible with AVP Transmitters

Transmitters – (All transmitters are up to 300m)

CatX AVP Tx2	2 port, AV / VP transmitter with local VGA output
CatX AVP Tx4	4 port, AV / VP transmitter with local VGA output
CatX AVP Tx8	8 port, AV / VP transmitter with local VGA output
CatX Mini VP Tx	Video+Power transmitter
CatX Mini AV Tx	Audio+Video transmitter
CatX Mini AVP Tx	AV-VP transmitter

Receivers

CatX AVP Rx2	150m AV-VP receiver with integrated AVP Re-transmitter – (Dual VGA / Audio output)
CatXQ AVP Rx2	300m AV receiver with integrated AVP Re-transmitter – (Dual VGA / Audio output)
CatX Mini AV Rx	150m Audio+Video receiver
CatX Mini VP Rx	150m Video+Power receiver
CatX Mini AVP Rx	150m AV-VP receiver

Repeaters

CatX AVP Repeater4	150m AV Receiver with integrated 4 port AVP Re-transmitter
CatX AVP Repeater8	150m AV Receiver with integrated 8 port AVP Re-transmitter

VGA Resolutions (Receiver dependant)

Resolution	1280 x 1024	1600 x 1200	1920 x 1080p	1920 x 1440	2048 x 1536
150m receiver	150m	100m	100m	60m	40m
300m receiver	300m	220m	220m	150m	100m



UTP cable Termination

Incorrect cable termination or connection to other networks may damage CatX units. The UTP cable must be correctly terminated (T568B specification) at both ends, as shown below:

DO NOT connect CatX units to any other network (Data or Voice).

DO NOT connect CatX units using a crossover patch cable.



Technical Specification

	CatX AVP Tx2	CatX AVP Tx4	CatX AVP Tx8
Maximum Distance	300m of Cat5/5e/6 UTP cable		
VGA Video	75 Ohms RGB input/output; VGA --- UXGA compatible; HD 1080P compatible RGBHV, RGSB, YUV, Y/C, CVBS formats supported Separate or composite HV (TTL); Horizontal 15-130KHz; Vertical 30-150Hz		
Audio input	Stereo unbalanced, 3.5V p-p Max.		
Audio output	Summed Stereo		
External Power	Optional	USB 5V lead 0.35m	5V PSU
Housing	All metal finish		
Operating Temp.	0 - 40 °C non Condensing		

Product Codes and Accessories

	Product	Part Number	
CatX AVP Tx2	CatX AVP Tx 2	CX-0S-AVP-T2	For a full range of CatX products, contact your supplier or visit syelectronics.co.uk
	USB 5V supply 0.35m	P-USB-1.3-350	
	VGA HD15 M/F 0.5m	CA-VGA-MF-0.5	
CatX AVP Tx 4	CatX AVP Tx 4	CX-0W-AVP-T4	
	USB 5V supply 0.35m	P-USB-1.3-350	
	VGA HD15 M/F 0.5m	CA-VGA-MF-0.5	
CatX AVP Tx 8	CatX AVP Tx 8	CX-0W-AVP-T8	
	5V PSU (1.3mm plug)	PS-5V1A-1.3-**	
	VGA HD15 M/F 0.5m	CA-VGA-MF-0.5	
Optional extras	Standard 19" Rack mount	MA-1U19-R2S	
	Standard Wall mount	MA-CXWB-S	
	Wide 19" Rack mount	MA-1U19-R2W	Suitable for CatX Tx4/8 transmitters
	Wide Wall mount	MA-CXWB-W	
	3.5 Jack audio cable	CA3.5J-300S	Please specify PSU type by replacing ** with the following codes: UK - UK 3 pin EU - European Schuko US - US 2 pin
	USB 5V lead 0.35m	P-USB-1.3-350	
	USB 5V supply 0.7m	P-USB-1.3-700	
	5V PSU (1.3mm plug)	PS-5V1A-1.3-**	

