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Product Data Sheet

MediaCento™ VX Transmitters and Receivers

AVX-VGA-TP-TX-8

AVX-VGA-TP-CSRX

Overview

The MediaCento VX Extender pair (Tx + Rx) transmits VGA + Audio + Serial signals via CATx cable(s). The system is ideal for public broadcasting, exhibits, retail stores, courtrooms, stock tickers, bus stations, etc. You will need one transmitter and at least one receiver.

Choose from three transmitters and three receivers:

• AVX-VGA-TP-TX: 1-Port Transmitter.

• AVX-VGA-TP-TX-4: 4-Port Transmitter.

• AVX-VGA-TP-8: 8-Port Transmitter.

• AVX-VGA-TP-SRX: Standard Receiver: When used with one of the transmitters listed above, the maximum distance is 492 feet (150 m).

• AVX-VGA-TP-LRX: Long-Range Receiver: When used with one of the transmitters listed above, the maximum distance is 1000 feet (300 m).

• AVX-VGA-TP-CSRX: Cascadable Long-Range Receiver: When used with one of the transmitters listed above, the maximum distance is 1000 feet (300 m).

NOTE: When a transmitter is used with one of the transmitters listed above and both an AVX-VGA-TP-LRX and a AVX-VGA-TP-CSRX together, the maximum distance is 1440 feet (450 m).

Basic Features

• Unique Equalizer (sharpness)/Gain (brightness)/RGB Skew adjustment via push buttons provides optimal video quality.

• Automatically detects and indicates the source video signal.

• Compatible with most popular screen resolutions, including WUXGA (1920 x 1200)/Full HD (1920 x 1080)/ UXGA (1600 X 1200).

Ordering Information

Item	Code
MediaCento VX	
Transmitters	
1-Port	**AVX-VGA-TP-TX**
4-Port	**AVX-VGA-TP-TX-4**
8-Port	**AVX-VGA-TP-TX-8**
Receivers	
Short-Range	**AVX-VGA-TP-SRX**
Long-Range	**AVX-VGA-TP-LRX**
Cascadable Long-Range	**AVX-VGA-TP-CSRX**

1-Port Transmitter (AVX-VGA-TP-TX) Dimensional Diagram

1.6"H
(4.1 cm)

4"D
(10.2 cm)

5"W
(12.7 cm)

Comparison Chart: MediaCento VX Transmitters

	AVX-VGA-TP-TX	AVX-VGA-TP-TX-4	AVX-VGA-TP-TX8
Maximum number of devices that can be connected	1, cascadable up to 5, using AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receivers	4, cascadable up to 20, using AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receivers	8, cascadable up to 40, using AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receivers
Number of Interconnect connectors	(1) RJ-45	(4) RJ-45	(8) RJ-45
User controls	(1) EDID copy button	(1) EDID copy button; (1) master/slave switch; (1) cascade on/off switch	(1) EDID copy button; (1) master/slave switch; (1) cascade on/off switch

AVX-VGA-TP-TX Specifications

Distance (Maximum)	AVX-VGA-TP-TX:
	    When used with AVX-VGA-TP-SRX receiver: 492 ft. (150 m);
	    When used with AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receiver:
	        1000 ft. (300 m);
	    When used with AVX-VGA-TP-LRX and AVX-VGA-TP-CSRX receivers:
	        1475 ft. (450 m)
	
	NOTE: 1475 feet has been tested and recommended as the maximum distance; however, with a good quality cable and environment, distances beyond 2000 feet can be achieved.

MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200
User Controls	(1) EDID copy button
Approvals	CE, RoHS2

Connectors	AVX-VGA-TP-TX:
	    Video input: (1) HD15 F (VGA);
	    Audio input: (1) 3.5-mm jack (stereo);
	    Serial input: (1) DB9 F (RS-232 TX/GND signals);
	    System configuration: (1) RJ-11 (connects to a host's serial port via included control cable and RJ-11/DB9 converter);
	    Power: (1) 2.1-mm barrel jack;
	    Ground: (1) ground connector;
	    Local video output: (1) HD15 F (VGA);
	    Interconnect: (1) RJ-45

Indicators	(2) LEDs: (1) Power/Source Input, (1) Link

Power	External, in-line adapter:
	    Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum);
	    Output: 12 VDC, 1.5 amps (maximum);
	    Consumption: 18 watts

Dimensions	1.6"H x 5"W x 4"D (4.1 x 12.7 x 10.2 cm);
Weight	1 lb. (0.45 kg)

Typical Application Using 1-Port Transmitter (AVX-VGA-TP-TX) and Short-Range Receiver (AVX-VGA-TP-SRX)
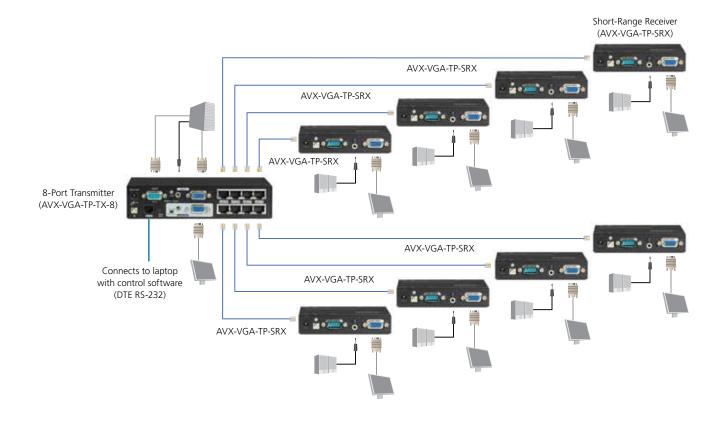
AVX-VGA-TP-TX-4 Dimensional Diagram

1.6"H
(4.1 cm)

4"D
(10.2 cm)

6.75"W
(17.1 cm)

AVX-VGA-TP-TX-4 Specifications

Distance (Maximum)	AVX-VGA-TP-TX-4:
	    When used with AVX-VGA-TP-SRX receiver: 492 ft. (150 m);
	    When used with AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receiver:
	      1000 ft. (300 m);
	    When used with AVX-VGA-TP-LRX and AVX-VGA-TP-CSRX receivers:
	      1475 ft. (450 m);
	  AVX-VGA-TP-SRX: 492 ft. (150 m);
	  AVX-VGA-TP-LRX: 1000 ft. (300 m)
	
	NOTE: 1475 feet has been tested and recommended as the maximum distance; however, with a good quality cable and environment, distances beyond 2000 feet can be achieved.

MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200
User Controls	(1) EDID copy button; (1) master/slave switch; (1) cascade on/off switch
Approvals	CE, RoHS2

Connectors	AVX-VGA-TP-TX-4:
	    Video input: (1) HD15 F (VGA);
	    Audio input: (1) 3.5-mm jack (stereo);
	    Serial input: (1) DB9 F (RS-232 TX/GND signals);
	    System configuration: (1) RJ-11 (connects to a host's serial port via included control cable and RJ-11/DB9 converter);
	    Power: (1) 2.1-mm barrel jack;
	    Ground: (1) ground connector;
	    Cascade output: (1) HD15 F (VGA) for video and RS-232;
	    Interconnect: (4) RJ-45

Indicators	(2) LEDs: (1) Power/Source Input, (1) Link

Power	External, in-line adapter:
	  Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum);
	  Output: 12 VDC, 1.5 amps (maximum);
	  Consumption: 18 watts

Dimensions	1.6"H x 6.75"W x 4"D (4.1 x 17.1 x 10.2 cm)
Weight	1.6 lb. (0.7 kg)

8-Port Transmitter (AVX-VGA-TP-TX-8) Dimensional Diagram

1.6"H
(4.1 cm)

4"D
(10.2 cm)

6.75"W
(17.1 cm)

Typical Application Using 8-Port Transmitter (AVX-VGA-TP-TX-8) and Short-Range Receiver (AVX-VGA-TP-SRX)

Short-Range Receiver
(AVX-VGA-TP-SRX)

AVX-VGA-TP-SRX

AVX-VGA-TP-SRX

AVX-VGA-TP-SRX

8-Port Transmitter
(AVX-VGA-TP-TX-8)

AVX-VGA-TP-SRX

AVX-VGA-TP-SRX

Connects to laptop
with control software
(DTE RS-232)

AVX-VGA-TP-SRX

AVX-VGA-TP-TX-8 Specifications

Distance (Maximum)	AVX-VGA-TP-TX-8: When used with AVX-VGA-TP-SRX receiver: 492 ft. (150 m); When used with AVX-VGA-TP-LRX or AVX-VGA-TP-CSRX receiver: 1000 ft. (300 m); When used with AVX-VGA-TP-LRX and AVX-VGA-TP-CSRX receivers: 1475 ft. (450 m) *NOTE: 1475 feet has been tested and recommended as the maximum distance; however, with a good quality cable and environment, distances beyond 2000 feet can be achieved.*
MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200
User Controls	AVX-VGA-TP-TX-8: (1) EDID copy button; (1) master/slave switch; (1) cascade on/off switch
Approvals	CE, RoHS2
Connectors	AVX-VGA-TP-TX-8: Video input: (1) HD15 F (VGA); Audio input: (1) 3.5-mm jack (stereo); Serial input: (1) DB9 F (RS-232 TX/GND signals); System configuration: (1) RJ-11 (connects to a host's serial port via included control cable and RJ-11/DB9 converter); Power: (1) 2.1-mm barrel jack; Ground: (1) ground connector; Cascade output: (1) HD15 F (VGA) for video and RS-232; Interconnect: (8) RJ-45
Indicators	(2) LEDs: (1) Power/Source Input, (1) Link
Power	External, in-line adapter: Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum); Output: 12 VDC, 1.5 amps (maximum); Consumption: 18 watts
Dimensions	1.6"H x 6.75"W x 4"D (4.1 x 17.1 x 10.2 cm)
Weight	1.6 lb. (0.7 kg)

Short-Range Receiver (AVX-VGA-TP-SRX) Dimensional Diagram

Comparison Chart: MediaCento VX Receivers

	AVX-VGA-TP-SRX	AVX-VGA-TP-LRX	AVX-VGA-TP-CSRX
Distance (Maximum)	492 ft. (150 m)	1000 ft. (300 m)	1000 ft. (300 m)
Number of Interconnect Connectors	(1) RJ-45	(1) RJ-45	(2) RJ-45
User Controls	(3) push buttons: (1) for entering/exiting video adjustment mode; (1) to increase video adjustment one level; (1) to decrease video adjustment one level; (1) EDID copy button	(3) push buttons: (1) for entering/exiting video adjustment mode; (1) to increase video adjustment one level; (1) to decrease video adjustment one level; (1) EDID copy button	(3) push buttons: (1) for entering/exiting video adjustment mode; (1) to increase video adjustment one level; (1) to decrease video adjustment one level; (1) EDID copy button; (1) master/slave switch; (1) cascade on/off switch

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AVX-VGA-TP-SRX Specifications

Distance (Maximum)	492 ft. (150 m)
MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200

User Controls	(3) push buttons:
	    (1) for entering/exiting video adjustment mode;
	    (1) to increase video adjustment one level;
	    (1) to decrease video adjustment one level

Approvals	CE, RoHS2
Connectors	Audio output: (1) 3.5-mm jack (stereo); Interconnect: (1) RJ-45; Serial output: (1) DB9 M (RS-232 TX/GND signals); Power: (1) 2.1-mm barrel jack; Ground: (1) ground connector; Video output: (1) HD15 F (VGA)
Indicators	(2) LEDs: (1) Power/Source Input, (1) Link

Power	External, in-line adapter:
	    Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum);
	    Output: 12 VDC, 1.5 amps (maximum);
	    Consumption: 18 watts

Dimensions	0.9"H x 4.25"W x 3.4"D (2.3 x 10.8 x 8.6 cm)
Weight	0.7 lb. (0.3 kg)

Long-Range Receiver (AVX-VGA-TP-LRX) Dimensional Diagram

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AVX-VGA-TP-LRX Specifications
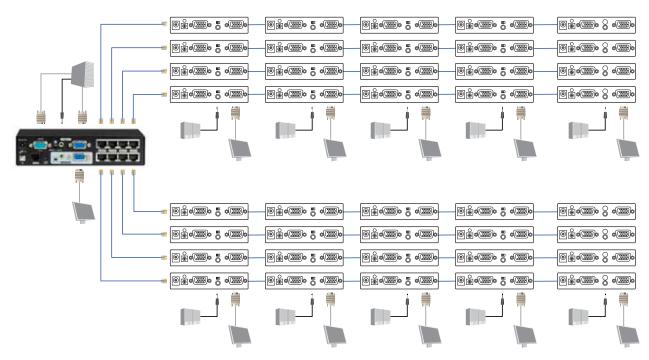
Distance (Maximum)	1000 ft. (300 m) *NOTE: 1000 feet has been tested and recommended as the maximum distance; however, with a good quality cable and environment, distances beyond 1500 feet can be achieved.*
MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200
User Controls	(3) push buttons: 　　(1) for entering/exiting video adjustment mode; 　　(1) to increase adjustment one level; 　　(1) to decrease adjustment one level
Approvals	CE, RoHS2
Connectors	Audio output: (1) 3.5-mm jack (stereo); 　　Interconnect: (1) RJ-45; 　　Serial output: (1) DB9 M (RS-232 TX/GND signals); 　　Power: (1) 2.1-mm barrel jack; 　　Ground: (1) ground connector; 　　Video output: (1) HD15 F (VGA)
Indicators	(2) LEDs: (1) Power/Source Input, (1) Link
Power	External, in-line adapter: 　　Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum); 　　Output: 12 VDC, 1.5 amps (maximum); 　　Consumption: 18 watts
Dimensions	0.9"H x 4.25"W x 3.4"D (2.3 x 10.8 x 8.6 cm)
Weight	0.7 lb. (0.3 kg)

Cascadable Long-Range Receiver (AVX-VGA-TP-CSRX) Dimensional Diagram

3.4"D
(8.6 cm)

0.9"H
(2.3 cm)

4.25"W
(10.8 cm)

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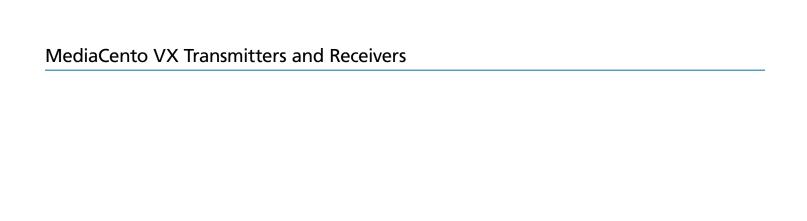
AVX-VGA-TP-CSRX Specifications

Distance (Maximum)	1000 ft. (300 m)
	NOTE: 1000 feet has been tested and recommended as the maximum distance; however, with a good quality cable and environment, distances beyond 1500 feet can be achieved.
MTBF	90,000 hours
Resolution (Maximum)	1920 x 1200
User Controls	(3) push buttons: (1) for entering/exiting adjustment mode; (1) to increase adjustment one level; (1) to decrease adjustment one level
Approvals	CE, RoHS2
Connectors	Audio output: (1) 3.5-mm jack (stereo); Interconnect: (1) RJ-45; Serial output: (1) DB9 M (RS-232 TX/GND signals); Power: (1) 2.1-mm barrel jack; Ground: (1) ground connector; Video output/cascade: (1) HD15 F (VGA) for video and RS-232; Repeater/daisychain: (1) RJ-45 (CATx out)
Indicators	(2) LEDs: (1) Power/Source Input, (1) Link
Power	External, in-line adapter: Input: 100–240 VAC, 50–60 Hz, 0.6 amps (maximum); Output: 12 VDC, 1.5 amps (maximum); Consumption: 18 watts
Dimensions	0.9"H x 4.25"W x 3.4"D (2.3 x 10.8 x 8.6 cm)
Weight	0.7 lb. (0.3 kg)

4-/8-Port Transmitter + Cascadable Receiver + Receiver (Cascaded Application)

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