

SUPERMATRIX MX2



HD
ready



Multi-Format Audio-Visual Switch/Router for Professionals and Home Users

SuperMatrix MX2 combines all the functions of an audio matrix, video matrix, IR matrix and a full RS-232 matrix into one cost effective compact design. This gives you absolute control over all of your audio/video and display devices over distances up to 1,699 feet.

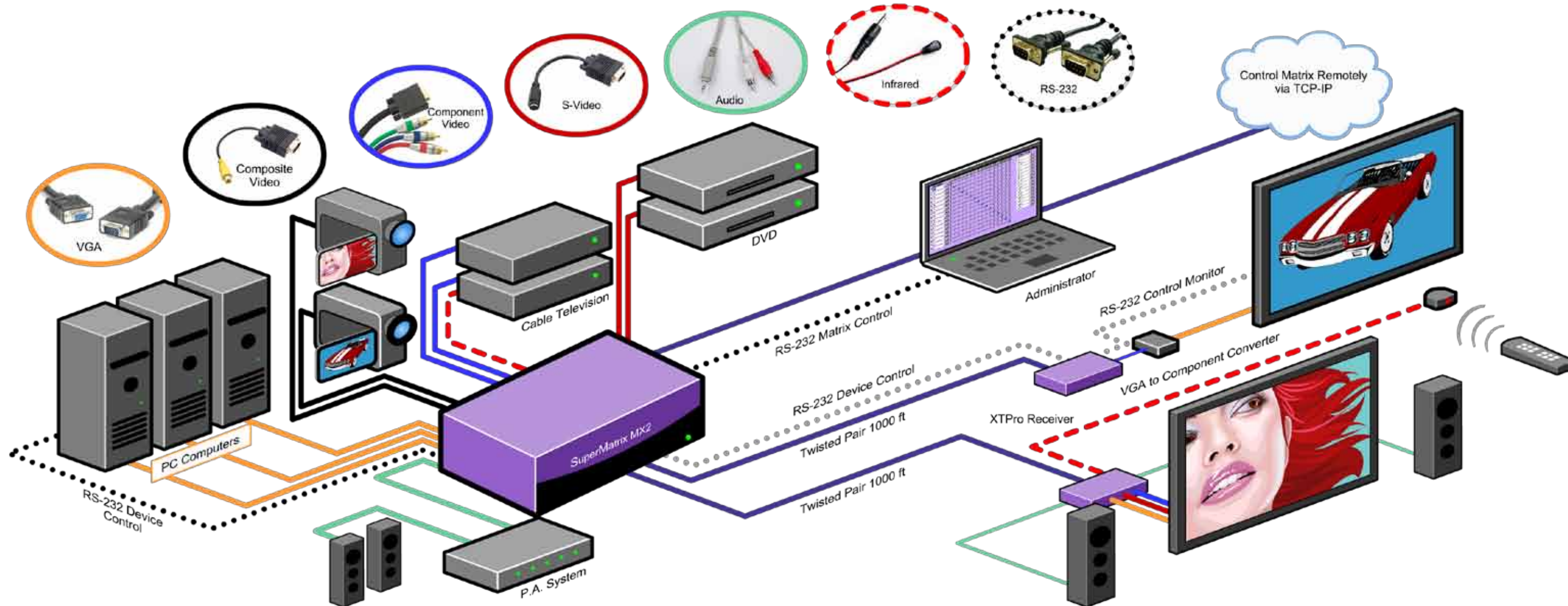
SuperMatrix is Dolby 5.1 compatible and supports analogue High-Definition Television (HDTV).



Made in the USA

Smart-AVI
SMART AUDIO VIDEO INNOVATION

Super Matrix MX2 At a Glance



Input/Output Types

SuperMatrix is compatible with the following interfaces:

- VGA/XVGA
- Composite
- Component
- S-Video
- Stereo Analog Audio
- Infrared
- RS-232

RS-232

With the integrated RS-232 matrix you can:

- Remotely power on and off all of the connected display devices.
- Send commands such as video schedules.
- Change the input sources.
- Report the current status of the matrix.
- Enable touch-screen displays to send and receive data.
- Interrupt displays with alerts and urgent messages.

Infrared

The built in Infrared extender gives you the ability to remotely change channels, control DVD's and turn off/on devices located up to 1,699 feet away.

Controlling SuperMatrix

You can control SuperMatrix MX2 via:

- Infrared (remote control)
- RS-232 using our SmartControl interface
- Over the Internet via TCP/IP

SuperMatrix MX2 provides a high quality and cost effective solution for the distribution of composite video, RGBS, UXGA, YUV, Y/C, CVBS and stereo audio signals up to 1,699 feet over Cat5e/6/7 structured cabling.

Route up to 32 UXGA video and stereo audio sources to 64 remote monitors and speakers located up to 1,699 ft away using our XT receivers and CAT5 cable. You can also route additional sound sources to external amplifiers independently. This is useful if you want to add additional sound sources such as background music or security features.

The full duplex Infrared and RS-232 feature gives you full control of both the matrix and all connected displays and devices.

With SuperMatrix MX2 you can:

- Distribute live data such as flight information or financial data.
- Make your Digital Signage even more effective.
- Make your corporate and educational programming easy to program and access.

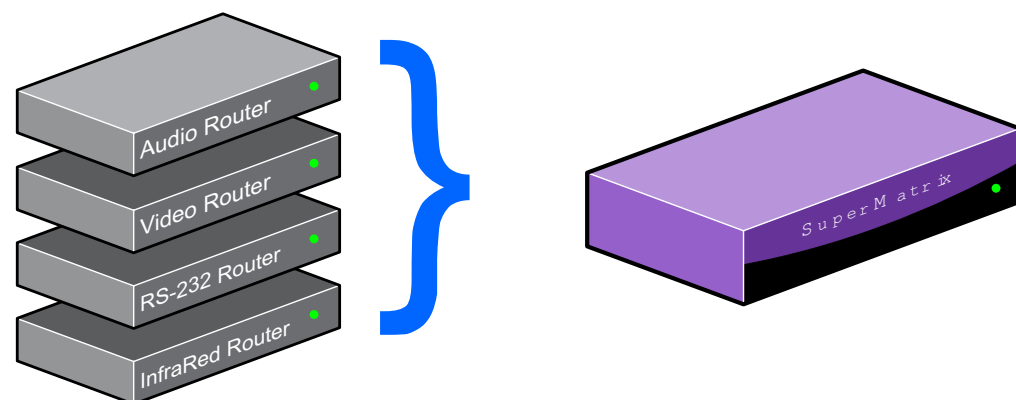
IR Features

- Control large groups of TV monitors and AV components from a single location.
- Offers remote users full control over the DVD,VCR or cable box by selecting a channel from the matrix.
- The IR function is completely transparent and supports any infrared frequency between 20 and 100Khz.

Features

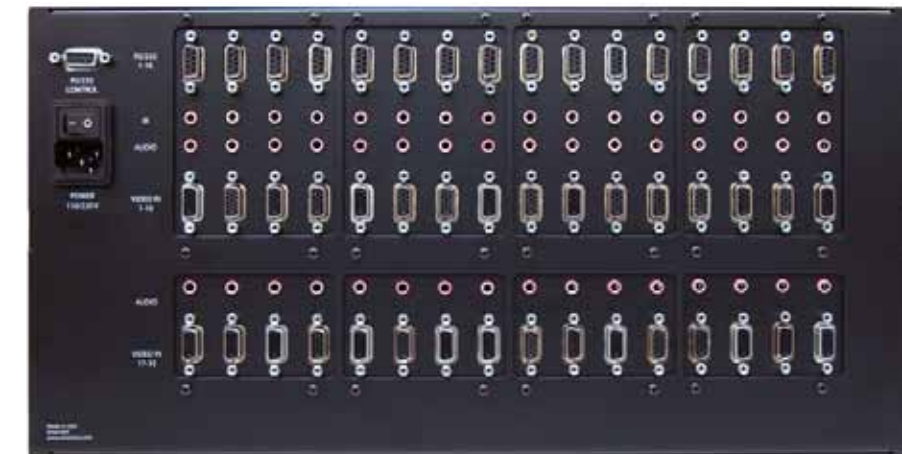
- Routes additional audio signals independently
- Integrated IR and RS232 router for each station
- Very High Quality Audio Switching
- Very High Quality Video Switching
- High resolution up to 1900 x 1200
- Full duplex InfraRed and RS-232 control for matrix and connected devices
- Completely transparent IR function supports all frequencies between 20 and 100Khz
- PC Windows control software
- Integral UTP distribution
- Cable compensation up to 1,699 ft.
- Compact metal housing for receivers
- Can be mixed with other video signal (RGB, YUV, RGBS)
- Supports Dolby 5.1 surround sound
- HD Compatible (480p, 720p, 1080, 1080p)

Four Devices in One



SuperMatrix MX2 Specifications

Video		Audio	
Bandwidth	400 MHz	Signal	15KHz 0dB unbalanced 100 Ohms impedance
Input Signal Level	1 Volt pk-pk into 75R	Connector	32 RCA or 3.5 Stereo Jack
Output Impedance	100 Ohms	Power	
Input Impedance	75 Ohms	Voltage	90-230V IEC 1A A/S 56/60 Hz
Connector	32 x HD15 socket female	Control	
Format	VGA/SVGA/XGA/RGBHV/RGsB/CVBS/YC/YUV/RGBS	IR	3.5mm connector with 38khz
Syncs	TTL5VDC	DB9	female RS232 or RS422 (Optional) @ 9600bps
Bandwidth	Horizontal Sync up to 85KHz	Dimensions	
RS-232	16 x RS232 DB9 Female, TX, RX, GND	Height X width X Depth	3U (88mm) x 19" x 450mm
Infrared	16 x IR 3.5mm Jack to IR emitter	Weight	9 lbs.
Front Panel	32 x RJ45 with video, audio and data modulated within single UTP		



Accessories

These SmartAVI accessories work with SuperMatrix MX2, giving it even more flexibility.



XTPro

Receiver with dual monitors, Audio and IR/RS-232 support

VGA Data	
Format	RGBHV, RGsB, YUV, Y/C, CVBS
Resolution	Up to 1900 x 1200 VGA, SVGA, XGA, SXGA
Connector Type	HD 15 socket
Audio	
Signal Type	Stereo unbalanced
Connector Type	3.5mm jack socket
Infrared	
Signal Type	30 to 110Khz
Connector Type	3.5mm socket
RS-232	
Speed	2400 to 115Kbps
Connector Type	DB9 Male
Power	
Requirements	5VDC @.5A
Connector	2.1mm DC jack (center +ve)
Physical	
Dimensions	135 x 90 x 23mm (26 with pegs)
Weight	.8 lbs or .36 kg



HDX Pro

Use a Single CAT5 Cable to Broadcast High Resolution HDTV, Stereo Audio, RS-232 and IR

VGA Data	
Format	RGBHV, RGsB, YUV, Y/C, CVBS
Resolution	Up to 1900 x 1200 VGA, SVGA, XGA, SXGA
Connector Type	HD 15 socket
Audio	
Signal Type	Stereo unbalanced
Connector Type	3.5mm jack socket
Infrared	
Signal Type	30 to 110Khz
Connector Type	3.5mm socket
RS-232	
Speed	2400 to 115Kbps
Connector Type	DB9 Male
Power	
Requirements	5VDC @.5A
Connector	2.1mm DC jack (center +ve)
Physical	
Dimensions	135 x 90 x 23mm (26 with pegs)
Weight	.8 lbs or .36 kg



Ordering Information

	Model No.	Description
Matrix	SMX-AV3216S	Component or UXGA + Audio over CAT5 32x16 Matrix with RS-232 Control. Includes: [SMX-AV3216, CCRS232MF6, SMP-SW & (CCPWR06US)]
	SMX-AVD3216S	Component or UXGA/Audio + RS-232/IR over CAT5 32x16 Matrix with RS-232 Control. Includes: [SMX-AVD3216, CCRS232MF6, SMP-SW & (CCPWR06US)]
Receivers	XTP-RXS	XTPRO UXGA/Audio/RS-232/IR CAT5 Receiver with Dual Video. Includes: [XTP-RX & (PS5VD1A)]
	XTP-RXLS	XTPRO UXGA/Audio/RS-232/IR CAT5 Long Range Receiver. Includes: [XTP-RXL & (PS5VD1A)]
	XTA-RXS	XT-AV UXGA/Audio Receiver. Includes: [XTA-RX & (PS5VD1A)]
	HDP-RXS	Component Video/Audio/RS-232/IR CAT5 Receiver. Includes: [HDP-RX & (PS5VD1A)]
	HDP-RXLS	Component Video/Audio/RS-232/IR CAT5 1699ft Receiver. Includes: [HDP-RXL & (PS5VD1A)]
Accessories	XTP-RXXS	UXGA/Audio/RS232/IR CAT5 1699ft Receiver with Remote Control for Skew Testing. Includes: [XTP-RXX, SMRMT, & (PS5VD2A)]
	SM-EYE	External Infrared receiver; IR range of 10' to 30'
	SM-TCPS	TCP/IP Control. Includes: [SMTCP, (CCRS232MM) & (PS5VD1A)] RMT-2 Remote Control Device type 2
	SM-LED	IR Emitter 6ft Single LED
	SM-TCPS	TCP/IP Control for all SmartAVI Matrixes/Routers. Includes: [SMTCP, (CCRS232MM) & (PS5VD1A)]
	SM-RMT	Remote Control type 1
	SM-CSW	GUI software for source/destination selection and name editing for all SmartAVI Matrixes/Routers
Cables	CCVGAMM06	6' male-to-male UXGA cable
	CCVGARCAMF01	1' RCA female-to-VGA cable
	CCVGARCAMM06	6' VGA male-to-RCA Male
	CCRCAMM06	6' RCA male-to-male cable
	CCPWR06	6' power plug cable
	CCRS232MF06	RS232 cable 6ft male-to-female
	CCMMAMM06	3.5mm stereo audio cable

XT AV

Receiver with Video and Audio support

VGA Data	
Format	RGBHV, RGsB, YUV, Y/C, CVBS
Resolution	Up to 1900 x 1200 VGA, SVGA, XGA, SXGA
Connector type	HD 15 socket
Audio	
Signal Type	Stereo unbalanced
Connector	3.5mm jack socket
Power	
Requirements	5VDC @.5A
Connector	2.1mm DC jack (center +ve)
Physical	
Dimensions	90 x 90 x 23mm (26 with pegs)
Weight	.6 lbs or .36 kg



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