



High Definition HDTV CAT5 Matrix Switch

For XGA, Component Video, Composite Video and S-Video with full stereo audio support and optional full IR/RS232 non-blocking matrix switching



Switch up to 16 remote devices to 16 remote displays located up to 1500ft away. You can control CAT-Switch with PC software, RS/232, IR or through the Internet.

CAT-Switch has two models to choose from

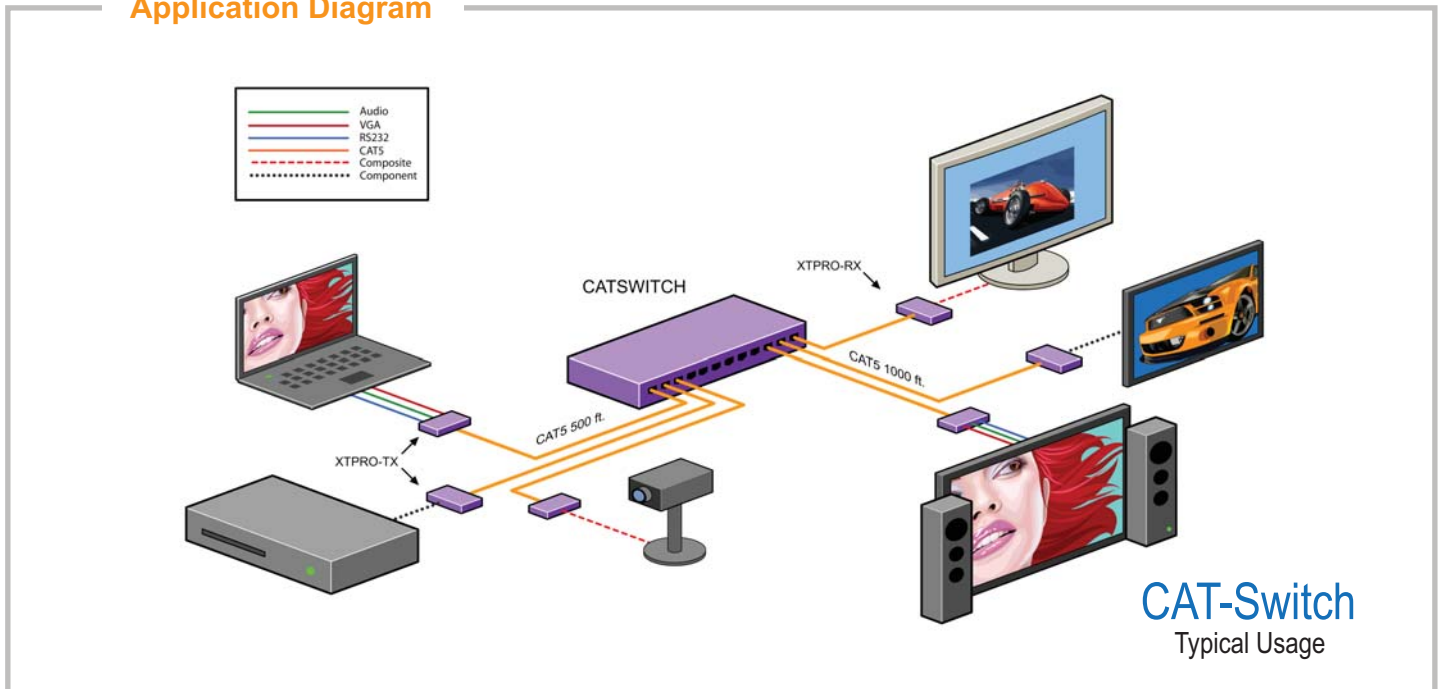
CAT-Switch routes audio and video signals from several different video sources out to multiple displays (projectors, monitors, etc.) and speakers via inexpensive Cat5/6 UTP cable.

CAT-Switch Pro routes audio, video, IR and RS/232 signals from several different video sources out to multiple displays and speakers via inexpensive Cat5/6 UTP cable.

Both are capable of connecting to as many as 16 video sources via transmitters and 16 video displays via receivers with a maximum extension of 1500 feet between the transmitter and receiver units.

A single audio/video output can be routed to one or multiple destinations. Video is transmitted at a resolution of 1900 x 1200 to insure high resolution images. Buffered video outputs and analog delivery of stereo audio maintains optimum integrity throughout the system. Special remote boxes offer compatibility with Video Composite , UXGA, Component Video and S-Video.

Application Diagram



Features

- Supports high resolution video up to 1900x1200.
- High quality audio switching.
- Infrared, RS232 and TCP/IP control.
- PC Windows software control.
- Integral UTP distribution.
- 1U rackmounted chassis.
- Uses easy to install, inexpensive CAT-5/5e/6/7/8.
- Maximum extension of 1,500 feet (500m) between the local and remote units.
- HDTV compatible. (720p, 1080i, 1080p)
- 300 MHz bandwidth.
- Compatible with VGA, XGA, Sun, MAC and SGI.
- Sync Format / Polarity Preservation.
- Compatible with Line Level Stereo Audio Signals.
- High ground loop immunity.
- Built-in power surge and transient protection.
- Designated trimmer in the remote unit to compensate for length.

CAT-Switch Specifications

Video	
Bandwidth	250MHz
Input signal level	1Volt pk pk into 75R
Output impedance	100 Ohms
Input Impedance	75R Ohms
Connector	RJ45
Format	VGA/SVGA/XGA/RGB HV/RGsb
Audio	
Bandwidth	20KHz
Signal level	0dB
Output Impedance	100 Ohms
Input Impedance	10K Ohms
Input Connector	VIA RJ45
Syncs	
Bandwidth	Digital
Signal level	5V
Output Impedance	100 Ohms
Input Impedance	10K Ohms
Input Connector	HD15 socket
Power	
Voltage	90-230V
Connector	IEC
Fuse rating	1A A/S
Frequency	50/60 Hz
Control	
IR	Remote unit
RS232	Software



CAT-Switch 8x16

Cat5 signals	
Pair 1	Red video balanced 1 V pk-pk + audio left
Pair 2	Green video balanced 1 V pk-pk+audio right
Pair 3	Blue video balanced 1 V pk-pk+sync
Pair 4	Data RS232 and IR
Dimensions	
Height	1U (133mm)
Width	19"
Depth	450 mm
Weight	10Kg

XT-PRO Specifications

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
RS232	
	DB9M
	TXD, RXD, Gnd.
	9600 bps
Power	
Requirements	5VDC @.5A
Connector	2.1mm DC jack (center +ve)
Physical	
Dimensions	95 x 80 x 23 mm
Weight	0.12 kg



XTPRO Transmitter and Receiver

Infrared Devices



IR Remote



IR Eye

Enhance CAT-Switch with optional Infrared control

- Control from up to 20 feet away
- Supports RC5 code

When used with CAT-Switch, XTPRO transmitter and receiver units extend your audio/video signal up to 1500 ft between devices.



Order Info

CAT-Switch Components or UXGA/AUDIO/IR Matrix Switches over CAT5	
CSW08X08S	CAT5 Matrix audio/video 8x8 matrix with RS232 control. Includes: [CSW08X08 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
CSW16X08S	CAT5 Matrix audio/video 16x8 matrix with RS232 control. Includes: [CSW16X08 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
CSW16X16S	CAT5 Matrix audio/video 16x16 matrix with RS232 control. Includes: [CSW16X16 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
CSWP08X08S	CAT5 Matrix audio/video/IR and R232 8x8 matrix with RS232 control. Includes: [CSWP08X08 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
CSWP16X08S	CAT5 Matrix audio/video/IR and R232 16x8 matrix with RS232 control. Includes: [CSWP16X08 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
CSWP16X16S	CAT5 Matrix audio/video/IR and R232 16x16 matrix with RS232 control. Includes: [CSWP16X16 (SM-CSW) and (CCPWR06US) or (CCPWR06EU)]
Receivers and Accessories	
XTP-TXS	XTPRO UXGA/Audio/RS232/IR transmitter with Local Video . Includes:[XTP-RX and (PS5VD1A)]
XTP-RXS	XTPRO UXGA/Audio/RS232/IR receiver with Dual Video Includes:[XTP-RX and (PS5VD1A)]
XTP-RXLS	UXGA/Audio/RS232/IR Long Range receiver. Includes:[XTP-RXL and (PS5VD1A)]
XTX-RXS	XT Xpress UXGA/Audio receiver. Includes:[XTJ-RX and (PS5VD1A)]
XTJ-TXS	XT UXGA/Audio transmitter. Includes:[XTJ-RX and (PS5VD1A)]
SM-TCPS	TCP/IP Control include SMTCP, (CCRS232MM) and (PS5VD1A)]
SM-EYE	External infrared receiver. IR range of 10' to 30'
RMT-2	Remote control device

Applications for CAT-Switch

Access

Enables easy access to multiple servers in various locations. Facilitates data sharing among departments.

Security

Safeguards the servers by storing them in a secure and climate controlled environment while still providing access from the production floor.

Savings

Saves in equipment costs, physical space and utilities expense.

Productivity

Increases productivity by facilitating testing and performance evaluation of software and equipment, on multiple servers, from a single keyboard mouse and monitor station.

Multimedia Presentations

Can be used in multimedia presentations, where the information is transmitted from various computers.

Many leading businesses have already recognized the innovation of SmartAVI's technologies and have eagerly implemented them. Users of SmartAVI technology include among others;

