avCat

VGA/Audio over Cat 5/6 with up to 200 displays over 10 km of cable
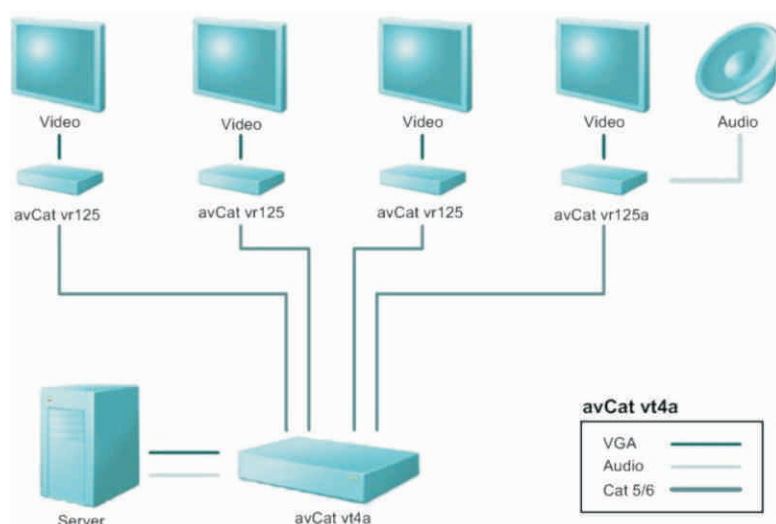

avCat VGA/Audio extender

The avCat video transmission system is a modular distribution system for VGA and audio signals using Cat 5/6 cabling. The VGA image from a computer can be displayed on up to 500 monitors connected by up to 10 km Cat 5/6 cabling.

All system units can also support audio (one channel of mixed analogue stereo in a reasonable quality) as an option. Together with the skew compensation units it is possible to create avCat transmission/distribution systems to suit almost any requirement.

CIM interconn's proprietary VGA transmission technology is unsurpassed in quality on the world market. The avCat products represent the fifth generation of interconn's extender products.

The avCat system has demonstrated mission critical reliability in 24/7 applications in banks, dealer rooms, call centres, hospitals, police stations, and numerous other business, military and industrial contexts throughout Europe since 1999.

Configuration

Related products

inVision	CMS for management of instore TV spots
netPlayer	Multimedia player for inVision with avCat output
dataCat	KVM extension over Cat 5/6

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How it works

The avCat product range allows the VGA image from a single computer to be displayed on multiple monitors. The system consists of transmitter and receiver modules supporting a variety of input and output possibilities with both VGA and audio.

Video equalisation and skew compensation allow the user to fine-tune the image for optimum quality, even over long distances. The modular nature of the system makes it both flexible and expandable.

The avCat video transmission sends red, green and blue (RGB) on three different pairs in the four-pair Cat 5/6 cable. The transmission units convert the RGB (VGA) signals into so-called balanced signals according to the well known RS-485 standard. The receiver units convert the balanced signals back into standard VGA signals. DDC is not supported, but can be emulated by use of a dongle (EDID Detective) on the source computer. Sync signals are transmitted as common mode signals of red and blue with reference to green. The fourth pair in the Cat 5/6 cable can be used for audio.

Features

- Transmission of Video to multiple monitors over standard Cat 5 cabling
- Receiver units for either 125m or 300m maximum distance
- ds300 & vr300 feature an integrated skew delay in the receiver
- All units can be daisy chained
- Excellent video quality:
    - the ds125 & vr125 support resolutions up to 2048x1536 at 50 meters and 1280x1024 at 125 meters.
    - the ds 300 & vr300 support resolutions up to 2048x1536 at 100 meters, 1920x1280 at 200 meters, and 1600x1200 at 300 meters.
- Supports a wide range of display systems, including CRT, TFT, plasma screens & video projectors
- Power supplies and system cables are included.
- No software installation required

Technical Specifications

Maximum Resolution:	up to 2048x1536 @ 85 Hz
Maximum Distance:	125/300 meter (for vr125/ds125 & vr300/ds300, respectively)
Video Compatibility:	VGA, SVGA, XGA, SXGA+, UXGA
Video Bandwidth:	Transmitter: 400 MHz Receiver: 250 Mhz
Link Cable:	Cat 5/5e/6 UTP/FTP Cable, EIA/TIA 568
Connectors vt1: vt4:	In: 1x HD15 (VGA), Out: 1x RJ45 (link), 1x HD15 (VGA) In: 1x HD15 (VGA), Out: 4x RJ45 (link), 1x HD15 (VGA) *Audio versions have additional MiniJack in/out connectors*
Connectors vr125: vr300:	In: 1x HD15 (VGA), Out: 1x HD15 (VGA) In: 1x HD15 (VGA), Out: 1x HD15 (VGA) *Audio versions have an additional MiniJack out connector*
Power Supply:	12V DC 1.5A