

RAVE



RAVE is a revolutionary signal transport system that allows you to route multiple channels of audio over standard Fast Ethernet hardware and cabling. A single RAVE network can now replace hundreds of analog audio cables, dramatically reducing installation time, effort and cabling costs while improving routing flexibility and audio performance. RAVE is the ideal audio transport system for arenas, theatres, broadcast facilities, and other applications that need multiple channels routed over long distances free of noise and hum.

Easy Routing of Multiple Audio Channels

Large sound systems often require routing dozens of audio channels over long distances to multiple locations. Analog technology requires a separate line for each channel, leading to large cables and conduits, and time-intensive installations.

Analog cabling can be a nightmare-prone to errors and subject to interference and noise. It's also time consuming to design and install as well as difficult to reroute and reconfigure. Cable, conduit, termination and labor costs can be the single largest expense of a system.

RAVE is a digital audio transport system that dramatically simplifies installation, reduces costs, increases routing flexibility and improves audio performance. RAVE enables you to transmit audio via standard Fast Ethernet hardware and cabling using Peak Audio's revolutionary CobraNet™ technology. Up to 64 channels of uncompressed 20-bit, 48 kHz digital audio can be transmitted over a single RAVE "repeater" network with no bit-rate reduction processing or other quality compromises. Additionally, RAVE now supports "switched" network topologies allowing for larger channel capacity and greater versatility. With a "switched" network, it's possible to run hundreds of channels of audio in coexistence with asynchronous PC or control traffic.

RAVE can provide great economies over conventional wiring methods, yielding significant time and cost savings in the reduction of cabling, termination, conduit and installation labor. With both analog and digital I/O models available, it is also easy to interconnect a wide variety of analog and digital equipment without additional converters. Finally, because it is Fast Ethernet based, RAVE easily supports system re-configuration and expansion with off-the-shelf network media and hardware.

What are the Benefits of RAVE?

- Reduced installation time and labor costs by terminating one cable for every 64 channels
- Reduce installation costs—replace hundreds of analog lines, conduit, isolation transformers, and distribution amplifiers with a single CAT-5 cable or fiber
- Superior audio quality—20-bit or 24-bit/48 kHz digital audio quality system-wide, immune to ground loops or EMI
- Greater flexibility—expand the system or re-route signals in any direction without rewiring



Replace audio cable with a single CAT-5 network cable, or for longer distances (>328 feet or 100m), with fiber optic cables.



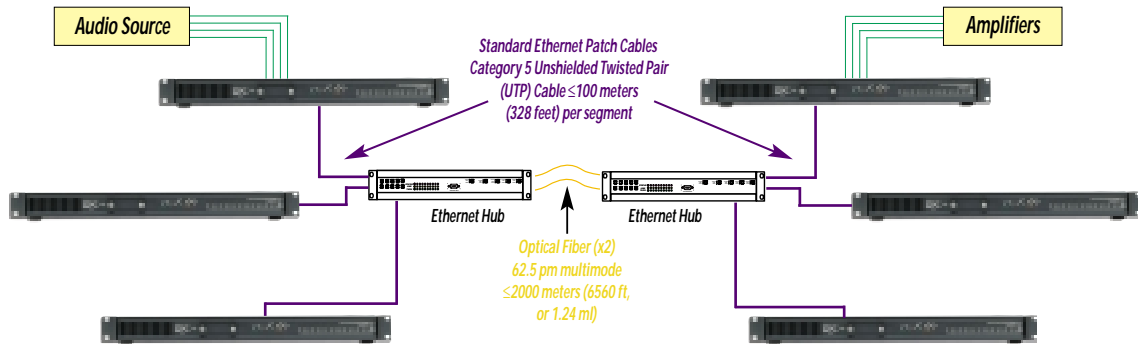
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Building a RAVE Network

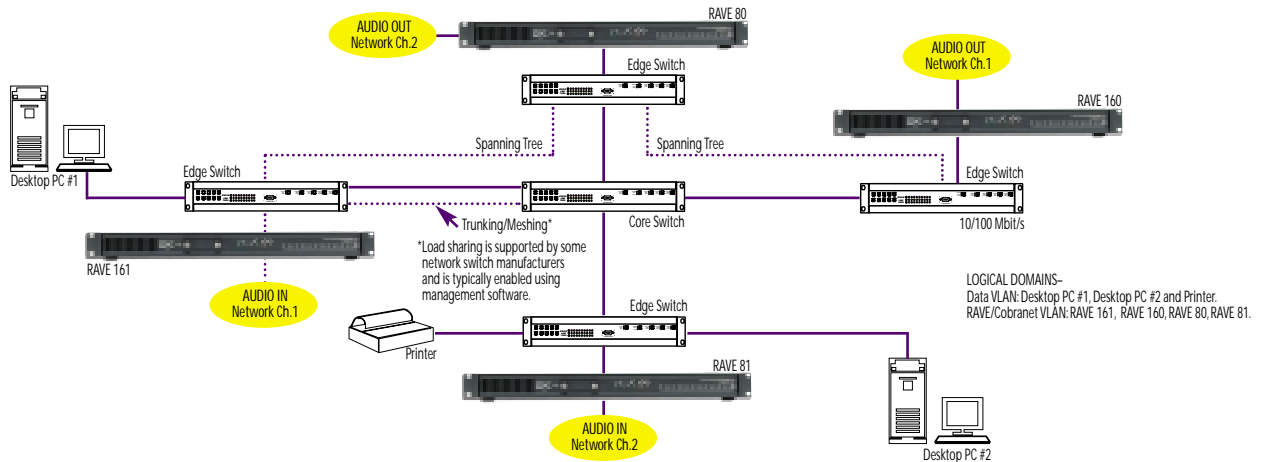
Each RAVE unit handles 16 audio channels—in either analog or digital AES/EBU format, depending on the model. More audio channels can be added to a network using additional RAVE units and inexpensive Fast Ethernet hardware such as hubs, switches, media converters, and CAT-5 twisted-pair wire, and fiber optic cable.

Typical “REPEATER” Network using Ethernet Hubs



Repeater networks are ideal for dedicated audio networks that require up to 64 audio channels. CAT-5 cable can be used for distances up to 100 meters (328 feet). For longer runs use multi-mode optical fiber for up to 2 kilometers, or single mode fiber for even greater distances. See the RAVE Application Guide for more information.

Typical “SWITCHED” Network using Ethernet Switches



Switched networks offer several advantages to audio system designers that were not previously available including the transmission of non-audio data via virtual networks, multiple network protocols, expanded capacity for hundreds of audio channels, and redundant network links. See the RAVE Application Guide for more information.

| MODEL | No. of Outputs | No. of Inputs | I/O Connector |
|-----------|----------------|---------------|---------------------|
| RAVE 160s | 16 analog | | Terminal block x 16 |
| RAVE 161s | | 16 analog | Terminal block x 16 |
| RAVE 188s | 8 analog | 8 analog | Terminal block x 16 |
| RAVE 80s | 16 digital | | XLR (AES3) x 8 |
| RAVE 81s | | 16 digital | XLR (AES3) x 8 |
| RAVE 88s | 8 digital | 8 digital | XLR (AES3) x 8 |

Specifications

| | |
|-------------------------------------|--|
| Analog Inputs: | 20-bit 48kHz A/D |
| Analog Outputs: | 24-bit 48kHz D/A |
| Digital Inputs: | 20-bit AES/EBU (sample rate converting) |
| Digital Outputs: | Up to 24-bit AES/EBU |
| Distortion: | <.007% <.004 @1kHz S/N is -100dB |
| Delay: | 6.3 milliseconds, fixed, node to node on repeater networks |
| Audio Input Connections: | 3 pin Eurostyle pluggable terminal block connectors |
| Serial Data Connections: | RS232 |
| Ethernet Output Connections: | 100baseTX, single RJ45 connector |
| Input Level Sensitivity: | +24dBu, +18 dBu, +12dBu jumper selectable |
| Output Level Sensitivity: | +24dBu, +18 dBu, +12dBu, +6dBu jumper selectable |
| Dimensions: | Width: 19" Depth: 13.375" Height: 1.75" (TRU) |
| Weight: | 15 lbs. (shipping) |