CAT-alyst

...digital for the analog world

Why CAT-alyst?

For the past several years, contractors have been requesting an alternative to soldering connections in audio installations. In-field soldering – an art form done extremely well by a shrinking number of professional technicians in an industry that already has way too few qualified installers – has become cost-prohibitive, and considering the existing available talent pool and/or their expertise, makes it extremely difficult to ensure quality solder joints on a consistent basis.

While we continue, as an industry, to solve our soldering problems, Pro Co has developed a digital technology that can eliminate the need for soldering altogether.

Our digital facility-wiring harness, CAT-alyst, was designed to specifically replace all traditional audio wiring procedures on any performance stage.

The old analog tried and true methods we are all comfortable with can be replaced by:

- Runs of CAT5e or CAT6e instead of 8451, 291 or 454.
- The reduction of conduit size from 3" to ¾" or 1".
- The elimination of all soldering in the field.
- Cutting days or weeks out of the installation labor.
- Eliminate the need for splits for the monitor system or the uplink or for recording feeds.
- Bringing digital technology right to the mic inputs on stage.
- A technology that will easily integrate with CobraNet® when required.

CAT-alyst

CAT-alyst Specifications

NETWORK MODULE
Uses standard CAT-5 or CAT-6 cabling
Standard Ethernet Protocol
Network Module Options
Pro Co Network Card 125uS Network
Cobra Net Network Card
64 channels of audio at 48 KHz, 24-bit
Transmitted in groups of 8 channels
100Mb standard communication
1Gb communication network card option late in 2005 for additional channel count
Any one input is routable to any multiple outputs
Neutrik EtherCon RJ45 ruggedized connector housings standard
Up to 99 address selectable
Control Options:
PC Software via Ethernet
Wireless PDA software
Network hardware using high speed FPGA technology (field programmable gate arrays)
FPGA Intellectual Property available for manufacturers
Powered via CAT-5 cable or optional AC power supply

ANALOG INPUT MODULE
8 mic/line balanced inputs module
2 mic/line balanced inputs module.
48K sampling in groups of 8 channels
120dB dynamic range, -100THD+N A/D converters
VCA controlled pre amplifier, Line level or Mic level 10dB – 40dB
Each input includes a 20dB PAD and Phantom Power

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ENCLOSURE OPTIONS

Snake Sub Box	8, 16, 24 ch (in or out per module)
1U, 2U and 3U 19" rack units	8, 16, 24 ch (in or out per module)
Wall Panel (for NEMA backbox)	8, 16, 24 ch (in or out per module)
Wall Plate 3 gang	2, 4 ch (in or out per module)
Floor Pocket	2, 4, 8 ch (in or out per module)

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Example Wiring of CAT-alyst