

## Modular Audio, Intercom and Data Multiplexing System



### *The Adder II is the LAST Audio Fiber Snake You Will Ever Need!*

Telecast's original Adders have been the most widely used announce booth and point-to-point audio snakes since their inception over ten years ago.

Introducing the new Adder II featuring a modular and scaleable design, improved user features, and even better audio and optical performance.

With up to 64 channels of bi-directional audio, 4 intercom module slots providing up to eight intercoms, expanded data and GPI capabilities, improved s/n, remote gains and phantom power control and industry leading latency specs, this new Adder is your audio workhorse.

#### **Customized to Fit your Needs**

This new Adder is built from the ground up with single RU frames that interface to a common backplane. You buy only the parts that you need. Individual analog and AES TX and RX frames can be combined with an intercom frame to create an audio system that is perfectly suited to your particular application. Whether you need 64 x 64 analog or 32 analog converted directly to 16 AES signals in just one direction...including data, with or without intercoms, these new Adders give you maximum flexibility and convenience.

#### **Digital Conversion and More**

Analog modules come in rows of 16 while AES modules are in row of 8 or 16. In this way, an AES TX can interface to an analog RX thus bypassing the need for expensive external D-A and A-D converters. And with ultra-low latency delay is never an issue.

Analog TX modules feature preamps that allow 40 dB of gain adjustments plus 12/48V phantom power via a convenient switch and LED display. The Adder II can be optionally equipped for remote control of these functions. And with better than 25db of optical budget, this Adder can operate across the theater or across town.

The Adder II can operate on one or two fibers or 2 coax. It is dual-wavelength to facilitate easy WDM single-fiber operation. Two each of RS-232, RS-242 and RS-485 plus two GPI's are via convenient DB type connectors. The signal analyzer includes an improved LED bar graph and the ability to monitor both analog and AES signals. The Analog/AES tone generator has three different tone frequencies with three level choices.

The new Adder II is the answer to all of your audio transport needs.

#### **Features**

- Multichannel, multi-format
- Analog mic/line audio
- AES audio
- 4 Intercom: RTS, Clear-Com, 4W
- 6 Data: 2 each 232,422,485 & 2 GPI
- Integrated Signal generator/analyzer
- Pristine 24-bit encoded audio
- 100+ dB s/n mic/line audio
- THD: 0.02 - 0.1%
- Ultra-low latency: 500  $\mu$ sec
- Optional Redundant Optics and power
- Remote mic gains and phantom power
- Link with fiber or coax
- Shop re-configurable
- Teleport compatible
- -10°C to +50°C Operation
- Designed for Lead Free
- Diamondback Compatible

#### **Benefits**

- Quick and easy set-ups
- Increased reliability
- Noise-free, electrically isolating
- Long distance
- Broadcast quality at any range

#### **Applications**

- Stadiums and Arenas
- Mobile Trucks (OB's)
- Pro Audio/FOH
- Convention facilities
- Campus Facilities
- Broadcast Centers/Studios
- Government, Military & Security



# Rack Them & Stack Them to Build Your Ultimate Audio Snake



All Adder2's start with a Base Unit. From here you have complete control over your audio system including the tone generator and analyzer (analog & AES), monitoring of optical and data paths, remote gain and phantom voltage assignment, and power. The intuitive user interface makes monitoring and modifying your system as easy as punching a few buttons.



The analog receiver unit has 16 analog audio outputs. Convenient LED indicators show signal presence and overload. This unit can receive signals from an analog or AES transmitter without external A-D conversion, and with minimal latency.



The analog transmitter unit has 16 analog audio inputs. Convenient LED indicators show signal presence and overload. A third LED lights as an indication that that channel is being modified (either gain or phantom) from the Base Unit. This unit can transmit signals to an analog receiver OR to an AES receiver without external A-D conversion, and with minimal latency.



The 8x8 analog transceiver unit has 8 audio inputs and 8 audio outputs. This strip is fixed LINE LEVEL only. Convenient LED indicators show signal presence and overload.



The AES transmitters and receivers come in rows of 8 or 16 or as 8x8 transceivers. These units can receive signals from like AES or analog transmitters and receivers with the conversion from analog to digital occurring in the fiber with minimal latency. Note that an 8 channel AES TX maps directly to a 16 channel Analog receiver. 16 Channel AES units would map to TWO rows of analog units. LEDs indicate signal presence. Available as unbalanced 110 Ohm XLR or unbalanced 75 Ohm BNC.



The 882i Intercom Unit allows easy two and four wire communication between the Adder2 frames. Only one 882i unit can be supported in each frame. This unit accepts up to four Adder-Aux modules that support industry standard 4-wire plus ClearCom and RTS 2-wire intercom systems.

## Other Key Features:

There are two operational modes for the Adder2 system:

- 75Mb mode for max of 32 audio each way plus intercom in up to 5 RU is DiamondBack2 and DiamondBack 4x4 Compatible
- 125 Mb mode allows up to 64 audio each way plus intercom in up to 10 RU and is not Diamondback2 or 4x4 compatible.

The Adder2 has the ability to easily be switched between +18dbu or +24dbu to match overall levels in your mixing environment.

Mic input gains (0,+10,+20,+30,+40) and phantom power (0,12V,48v) are locally adjusted from the Base Unit. These functions can be remotely controlled via an optional 1 RU Controller\*.

\*Available fall 2008

The tone generator can produce three different tone frequencies at three different levels and can output that tone in the analog AND digital domain for ringing out and sweeping audio paths. The signal monitor is also capable of directly monitoring both analog and AES signals through an internal speaker or via a 1/4" jack.

Internal monitoring speaker can be disabled via a convenient switch on the rear panel of the Base Unit.

The system can operate with full optical and power redundancy with auto switching on the optical. Connection is via up to 300m of dual coaxial cable or up to several kilometers on one or two multimode or singlemode fibers.

System is fully TelePort and TeleThon compatible.

Represented by:



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