

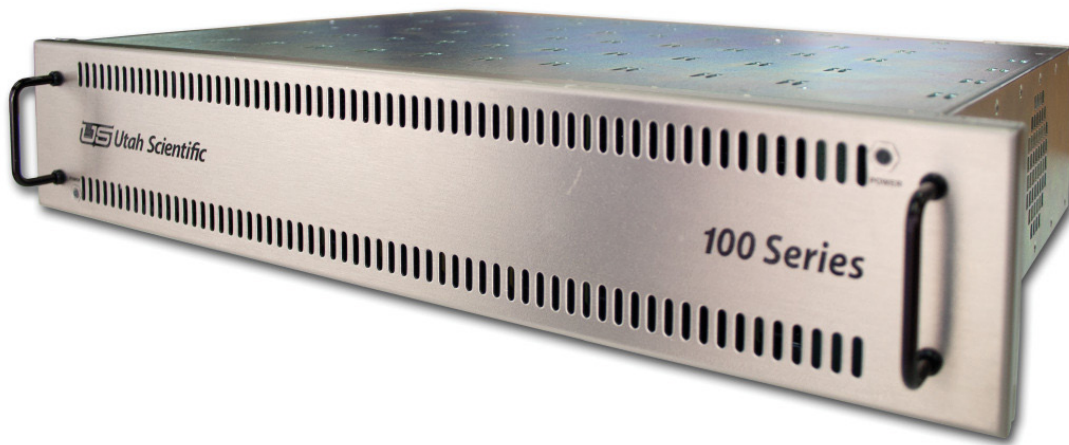
UTAH-100/3

MADI Terminal

MADI (AES-10) is increasingly being used as a simple and reliable means of transport for high-density audio installations in studio and mobile production applications.

The UTAH-100/3 MADI Terminal offers a compact, flexible and cost-effective means of converting audio signals, both analog and digital, to and from the MADI (Multiple Audio Digital Interface) signal format. Each 2RU frame can house one or two MADI terminal channels, each channel can carry up to 64 individual audio signals (or 32 stereo pairs) with full 24 bit, 48KHz resolution.

The UTAH-100/3 MADI Terminal is housed in a 2RU frame with internal power supplies, redundancy is optional and a controller card which accepts a DARS reference signal for synchronizing the audio elements. Two bays are available in the frame for the installation of MADI card sets. Each card set consists of four cards which provide connection for one MADI stream (in coax or optical format) and 32 AES signals (balanced or unbalanced). Analog card sets are also available, providing A-to-D or D-to-A conversion for 64 mono signals or 32 stereo pairs.

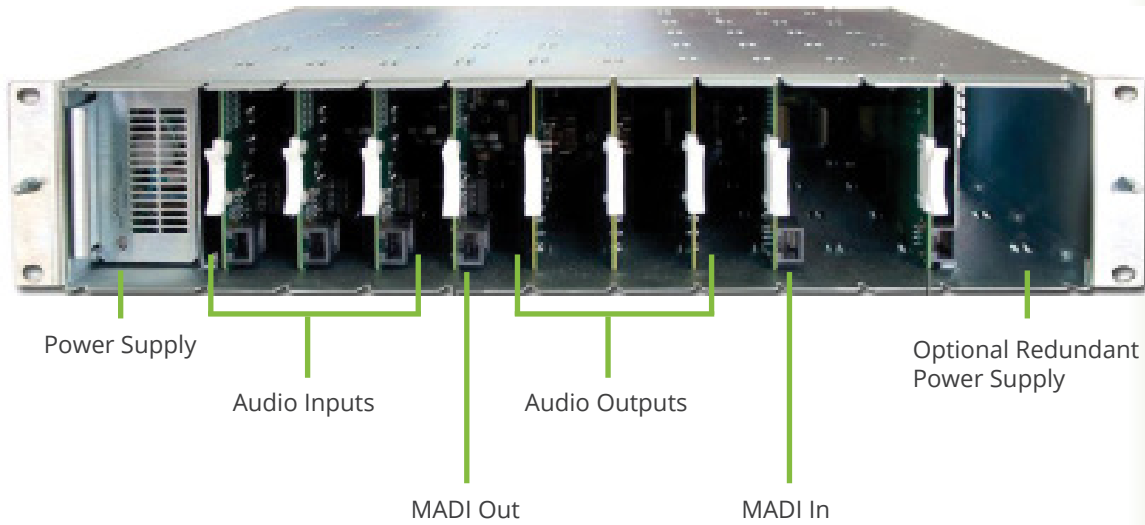


Features

- Transport 32 audios on a signal cable
- Companion audio for Utah Scientific video routers
- AES balanced and unbalanced combinations
- Analog Audio with built in A-D and D-A conversion
- Fiber and coax MADI connections
- Redundant power supply option
- Compact 2RU frame



UTAH-100/3 Madi Terminal



Specifications

MADI (AES10)

I/O impedance:	75 ohms
Capacity:	Up to 32 pairs of 24 bit, 48 KHz audio
Cable range:	Coax - 100 meters Fiber - 2,000 meters

Digital Audio I/O

Balanced differential or unbalanced	
Balanced impedance:	110 Ohms
Unbalanced impedance:	75 Ohms
Input level:	Minimum 200 mV p-p Maximum: 7 V p-p
Maximum common mode level:	±7 V (DC-20 kHz)

Analog Audio I/O

Converter resolution:	24 Bits (20 or 16 selectable)
Total harmonic distortion:	0.1%(30 Hz to 20 KHz, +24dBm)
Hum and noise:	-85dBm (15KHz weighting)
Crosstalk:	-85 dB (20 KHz, +24dBu)
Gain uniformity:	+/- 0.15dB
Frequency response:	+/- .25dB (20 Hz to 20 KHz)
Input impedance:	>100K Ohms
Output source impedance:	<50 Ohms
Common mode rejection:	70 dB (50/60 Hz)

Power

All supplies are UL-listed and IEC950 approved
100-240 VAC, 50-60 Hz
Power consumption 100 watts max

Physical

Width:	19" rack mount (48.26cm)
Depth:	14" (35.6cm)
Height:	2RU, 3.50" (8.9cm)
Weight:	12lb (5.4kg)

Environmental

Operating temperature 32-113 degrees F, (0-45 degrees C)
Relative humidity range: 0-90%, non-condensing

Warranty

10-year limited warranty, 24/7 service support

Ordering Information

100/3 MADI RFPS	Rack frame with power supply and MADI controller card. Holds 2 MADI card sets
100/3PS	Redundant power supply
AES UNBAL IN SET	MADI card set - 32 coax AES inputs, MADI output on coax and fiber (SFP not included)
AES UNBAL OUT SET	MADI card set - 32 coax AES outputs, MADI input on coax and fiber (SFP not included)
AES BAL IN SET	MADI card set - 32 balanced AES Inputs, MADI output on coax and fiber (SFP not included)
AES BAL OUT SET	MADI card set - 32 balanced AES outputs, MADI input on coax and fiber (SFP not included)
ANALOG IN SET	MADI card set - 64 analog mono Inputs, MADI output on coax and fiber (SFP not included)
ANALOG OUT SET	MADI card set - 64 analog mono outputs, MADI input on coax and fiber (SFP not included)



Since the introduction of our first analog router over three decades ago, Utah Scientific has been an industry leader in the design and manufacture of world-class signal routing and processing.

Hybrid technologies enable integrated frame sync, clean-quiet outputs, SMPTE ST 2022, A/D and D/A conversions, fiber optic conversion, audio embedding/de-embedding, and MADI transport. By design, Utah products are the most energy efficient on the market.

Utah Scientific has the most experience in the design and manufacture of routing switchers and associated distribution products in the market. We take pride in knowing that the reliability and performance of our products are second to none and are backed by industry leading service and support.

