
Mamba Digital Snake Technical Specification

Analog Input:

Maximum input level = +22 dBu
SNR=101 dB
THD+N (1kHz @ -1dBFS) = 0.0026%

Latency:

Digital snake delay (I2S-I2S) is less than 200 microseconds
End to end Analog delay = ~ 600 microsec @ 96K and 1 ms @ 48k

Audio Connectors (DB25):

DTF / DTP / DTM-800 Series from Hosa compatible with
TASCAM & FOSTEX

Ethernet Connectivity:

100 Mbps Full-Duplex Transmission
Built in cable redundancy in case of cable failure
CAT-5 Cable up to 140 meters
Neutrik Ethercon connector for durability

Power Requirements:

Universal power supply rated for 110-240 VAC 50-60 Hz
Max Watt: 32X32 channel = 30 W
64X64 channel = 45 W
On/Off Switch
External fuse on power input. IEC connector

Link 1 / FoH

Medianet synchronized Audio over CAT-5
Neutrik RJ45 for ruggedized connectors
Standard CAT-5 or CAT-6 cable
Up to 140 m or 450 feet over a standard CAT-5 (UNH test lab certified)
Point to point Mode operates as Link 1 (Main Link)
Split Mode operates as Link to FoH
100 Mbps Ethernet
Max 64 X 64 bi-directional channels @ 48K
and control as well as Aux 1 over a single CAT-5

Link 2 / Mon

Medianet synchronized Audio over CAT-5
Neutrik RJ45 for ruggedized connectors
Standard CAT-5
Upto 140 m or 450 feet tested over a standard CAT-5 (UNH test lab)
Point to point Mode operates as Link 2 (Redundant CAT-5)
Split Mode operates as Link to Mon Mix
100 Mbps Ethernet
Max 64 X 64 bi-directional channels and control as well as Aux 1
over a single CAT-5

RS232:

Pass thru RS232 from FoH to Stage or Stage to FoH
Bi-directional
19200 Kbps, 8 data bits, no parity, No flow control
DB9 connector (Female)
(use for Remote control or any other control terminal that has RS232)

Aux1:

2 pair of CAT-5 available for any use
Pass thru over Link 1 / FoH CAT-5
RJ45 Neutrik Ethercon or XLR F TRS combo or XLR M (Options)
RJ45 - 1,2,3,6 - Use for LAN or IP traffic
XLR - Hot, cold, and Ground Use for Intercom, Analog pass thru
Available only when direct CAT-5 is connected between
mamba boxes
(wont work if any Ethernet switches in middle)

Analog Output:

Maximum output level = +22 dBu
SNR = 114.6 dB
THD+N (1kHz @ -1dBFS) = 0.0043%

Operating Temperature:

-0° C to 50° C

Storage Temperature:

-25° C to 70° C

SNR and THD+N:

[Click here for details](#)

Warranty:

Two year Limited warranty

Fiber Support:

External Media converters for single and multi-mode
fiber extension*

Approvals:

FCC, Canada, CE

48K / 96K switch:

Select the sample rate between 48K and 96 Khz
48K will allow max of 64X64 channels
96K will allow max of 32X32 channels
(All boxes should have same sample rate for proper operation)
64X64 channel will work as 32X32 if 96K mode selected
32 X32 channel will work as 32X32 in both 48 or 96 mode

Front Panel:

Power LED, Link 1 LED, Link 2 LED
Sync LED (Boxes indicate that they are in Sync)

GND (Ground)

Chassis Ground
Connect a 6-32 screw with any GND connection

DB25 - Analog IN and Out

Compatible with TASCAM / Fostex standard
Each DB25 has 8 channels
Hosa and other DB25 break out cables

Rack mountable Chassis:

2U for 16X16 and 32X32
3U for 48X48 and 64X64
Solid steel and cutout to dissipate any heat

Aux 2:

2 pair of CAT-5 available for any use
Pass thru over Link 2 / Mon
RJ45 Neutrik Ethercon or XLR F TRS combo or
XLR M (Options)
RJ45 - 1,2,3,6 - Use for LAN or IP traffic
XLR - Hot, cold, and Ground Use for Intercom,
Analog pass thru
Available only when direct CAT-5 is connected between
mamba boxes
(wont work if any Ethernet switches in middle)