Contact Information

FERROFISH A32
32 in/32 out AD/DA MADI & ADAT Converter

MADI I/O:
optical + coaxial interface
64 channels @32kHz, 44.1kHz, 48kHz
32 channels @64kHz, 88.2kHz, 96kHz
32 channels @128kHz, 176.4kHz, 192kHz*
* both interfaces work independent to achieve full 32+32 channels
MIDI over MADI implemented
latency: 3 samples
automatic switching between optical <-> coax MADI when signal lost

ADAT I/O:
4+4 x optical interfaces
32 channels @32kHz, 44.1kHz, 48kHz
16 channels @64kHz, 88.2kHz, 96kHz
n/a @128kHz, 176.4kHz, 192kHz

S/PDIF:
ADAT 4 I/O can be reconfigured as S/PDIF
input has sample rate converter included (performance of SRC: -128dB)
output follows A32 sample frequency

Wordclock BNC:
1 x input, 1 x output
75 Ohm Termination switchable for input

MIDI I/O:
two DIN5 jacks for remote
conversion MIDI <-> MIDI over MADI possible

A/D Converter:	4 x CS5368 (Cirrus Logic) 4 x DSub25 / Tascam analog switches: +20dBu, +13dBu, +4dBu digital gain: +20dBu...-8dBu, 1dB steps S/N: 114dB THD+N: -105dB interchannel isolation: 110dB latency @32kHz, 44.1kHz, 48kHz: 12/fs (0.25ms @48kHz) latency @64kHz, 88.2kHz, 96kHz: 9/fs (0.09375ms @96kHz) latency @128kHz, 176.4kHz, 192kHz: 5/fs (0.026ms @192kHz) OpAmps: RC4580 + OPA1664 level indicator: TFT screen, 28 levels
D/A Converter:	4 x CS4365 (Cirrus Logic) 4 x DSub25 / Tascam analog switches: +20dBu, +13dBu, +4dBu digital gain: +20dBu...-8dBu, 1dB steps S/N: 114dB (A-weighted) THD+N: -100dB interchannel isolation: 110dB latency @32kHz, 44.1kHz, 48kHz: 7.8/fs (0.1625ms @48kHz) latency @64kHz, 88.2kHz, 96kHz: 5.4/fs (0.05625ms @96kHz) latency @128kHz, 176.4kHz, 192kHz: 6.6/fs (0.034375ms @192kHz) OpAmps: RC4580 + OPA1664 level indicator: TFT screen, 28 levels
USB:	USB 2.0 for remote, update
Headphone output:	independent channel select any mono or stereo source select one of 5 mixes of all inputs and outputs digital volume control
Audio Processor:	Sharc DSP ADSP-21489 / 400MHz Routing of all 128+128 channels Mixing to headphone output DSP plugins (not available yet)
PLL:	digital controlled PLL / Jitter reduction system output jitter: 50ps ... 100ps typ.
Internal Clock:	temperature compensated oscillator, with high accuracy initial accuracy: +/-1.5ppm over temperature range: +/-2.5ppm aging: +/-1ppm
Preset management:	7 presets each preset holds routing, input gains, output levels part of the preset (routing, gains, levels) can be selected when loading
Lock feature:	unit can be (un-)locked using a factory set secret 6 digit number
Power supply:	2 x input jacks with screw lock for redundant power voltage supervision, warning message on screen when PSU input fails 1 x power supply included, 12V, 3A