

# PULSE16 spec sheet

OCT-2017

- MADI I/O: optical (optional SFP interface)  
64 channels @32kHz, 44.1kHz, 48kHz  
32 channels @64kHz, 88.2kHz, 96kHz  
16 channels @128kHz, 176.4kHz, 192kHz\*  
MIDI over MADI implemented  
latency: 2 samples
- ADAT I/O: 4+4 x optical interfaces  
32 channels @32kHz, 44.1kHz, 48kHz  
16 channels @64kHz, 88.2kHz, 96kHz  
8 channels @128kHz, 176.4kHz, 192kHz \*\*
- Wordclock BNC: 1 x input, 1 x output  
75 Ohm termination switchable for input
- MIDI I/O: two DIN5 jacks for remote
- A/D Converter: 2 x CS5368 (Cirrus Logic), 24Bit, max 196kHz \*\*  
16 x 6.3mm phone jack, balanced  
max. input level: +20dBu  
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  
level indicator: TFT screen, 28 levels
- D/A Converter: 2 x CS4365 (Cirrus Logic), 24Bit, max 196kHz \*\*  
16 x 6.3mm phone jack, balanced  
max. output level: +20dBu  
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 (0.03437ms @192kHz) \*\*  
OpAmps: RC4580  
level indicator: TFT screen, 28 levels
- Headphone output: independent stereo channel  
select any mono or stereo source  
digital volume control
- FPGA processor: Routing of all 112+112 channels  
independent selection of headphone output

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: input jack with screw lock  
power supply included, 12V, 3A

\*\* Remark: 128kHz, 176.4kHz, 192kHz only available if MADl option is installed