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wif2

Hardware Synchronizer for Digital Audio Workstations

description

The WIF word clock interface reads VITC and LTC time code and generates MTC midi time code together with a phase-locked, low jitter word clock reference.

While MTC midi time code is used to trigger the start of audio playback /record, the word clock locks the digital audio with continuous sync. The word clock output can be set either to word clock (FSx1) or digidesign super clock (FSx256). The typical lockup time is less than 0,4 seconds.

The word clock generator can be resolved to free-running LTC or a video sync signal and supports 44.1 and 48kHz sample rates including 0.1% and 4% pull up/pull down rates.

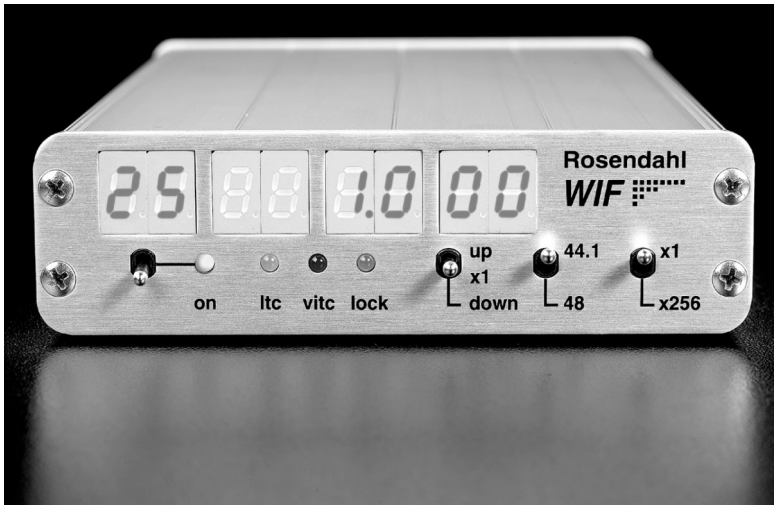
The interface supports five input signal combinations: only LTC, VITC, LTC-VITC autoswitching, LTC + Video Sync, only Video Sync.

The LTC-reader detects all time code formats. Reverse time code and time code loops are translated into MTC full messages / MMC locate commands, so that MTC slaves cue up during jog / shuttle.

Instant cue software stops and restarts the time code slaved systems when the master time code is looping or jumping.

The recursive error correction interpolates dropouts and assembly errors into perfect linear time code.

The interface has a robust aluminium housing, a large 7-segment LED display and a built-in power supply. An optional rackmount kit for fitting the unit into a 19" rack is also available.



- Generates MTC from LTC and VITC
- Generates Word Clock or Super Clock (FSx256) from Video Sync or free-running LTC
- Supports 44.1 and 48 kHz sample rates including 0.1% and 4% pull up / pull down rates
- Low jitter Word Clock synthesizer for best audio quality

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applications



VITC time code master
Video sync

video recorder / player
video sync generator

Digital audio hardware

audio interface, mixer,
AD / DA converter

LTC time code master

analog audio tape recorder,
video recorder/ player,
machine controller

Computer based digital audio workstation

MAC / PC with MIDI interface,
recording software,
editing software,
processing software,
sequencing software

specifications

LTC input

RCA female -40 to +20 dBu, 10k ohms, 0,5 to 200% of playspeed, reverse and positional, format auto-detection (24, 25, 30 drop, 30 fps)

Video input

BNC female, 75 ohms terminated, reads PAL/NTSC Composite Sync, reads VITC in lines 6 to 22

Word output

BNC female, 3,5 Vpp @ 75 ohms, FSx1 or FSx256 from 42.336, 44.056, 44.100, 44.144, 45.937 kHz, 46.080, 47.952, 48.000, 48.048, 50.000 kHz,
Lock range +/- 10% of nominal speed,
Resolution 23 ppm

MIDI output

5-pin DIN, The Complete MIDI 1.0, MTC quarter frame and full messages, MTC quarter frame bursts, MMC locate

Power

Euro two-pole, 230 VAC / 30 mA or
115 VAC / 60 mA version available

LED Display

8 x HP 7503, 6 mm (0,3“) red

Dimensions

11,4 cm W x 3,1 cm H x 16,8 cm D, 1U-19“ rackmount kit available

Weight

0,7 kg

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