OXFW971

16 Channel Streaming Audio Firewire I/O Controller with Midi and S/PDIF

OXFORD SEMICONDUCTOR

FireWire800

FireWire400

USB 2.0

ARM Micro

FireWire Audio

Block diagram labels:
- 2 Ch Serial Audio
- Buffer RAM & Manager
- DSP Co-Pro
- ARM7 RAM FLASH
- 1394A/B Link
- GPIO x 8
- SPDIF
- Midi
- SPDIF In/Out
- Midi In/Out

FireWire Audio

PC or Mac
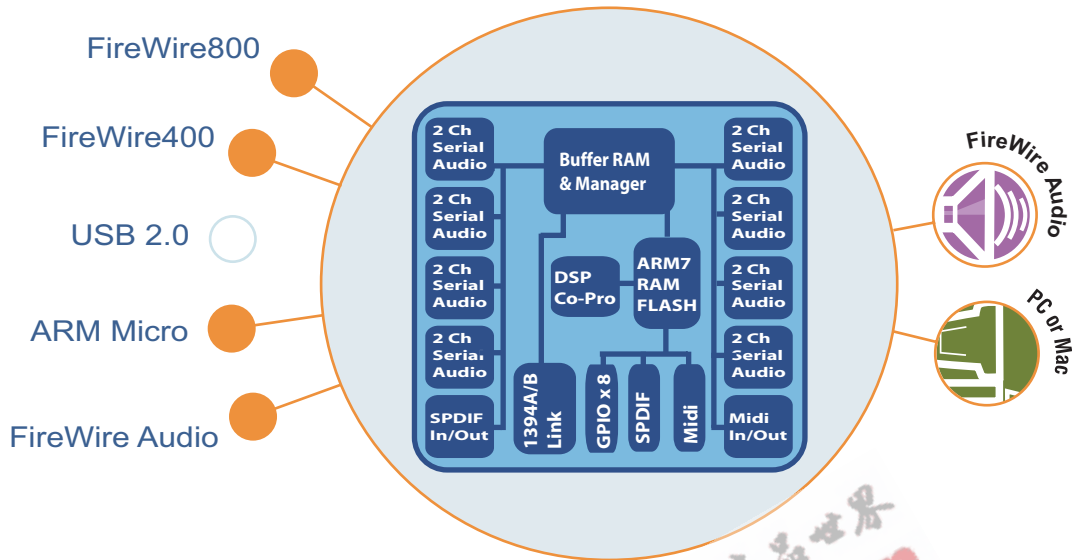
The Oxford 971 is a 16 channel In/Out, 24 bit, 192kHz, Midi and S/PDIF FireWire800/400 to Audio bridge. It is designed to meet the needs of the next generation quality multi-channel audio systems. Typical applications for Apple Mac® & PCs include FireWire surround speakers, external audio cards and I/O units for GarageBandTM. The integral power supply of Firewire allows speaker systems to be created without additional external power supplies. Its plug & play nature means that there is no longer a need to install internal sound cards, opening the way for superior sound systems on laptops and providing a simple route for sound upgrades.

Key features

- 8 serial audio ports providing 16 channels configurable as input or output

- 24bit with up to 192kHz sampling

- Midi and S/PDIF input and output

- FireWire400/FireWire800 (IEEE1394A/B)

- Supports AM824 audio format as specified in IEC61883-6

- ARM7TDMI with Integral Flash and RAM

- Easy Firmware upgrade over FireWire

- SDK available allowing software customisation

- Low jitter audio master clock recovery with PLL expansion for super Hi-Fi applications

- 3V3 I/O, 1V8 Core

- 100 pin TQFP package

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