

OXFW970

7.1 Channel-Streaming Audio FireWire Controller

Features

- 4 serial-audio ports providing 8 channels (4 stereo channels)
- 2 input channels
- Supports standard AM824 audio format (as specified in IEC 61883-6)
- Supports master & slave modes (bit/word clocks) on serial audio interface
- Provides a master clock (256 fs) & synchronized serial audio interface to an external DAC
- Provides low-jitter audio master clock (256 fs) clock recovery
- External DAC can be set up using a conventional serial control interface (using GPIO pins)
- ARM7TDMI[®] embedded processor
- Supports both IEEE1394a & IEEE 1394b at speeds up to S800
- 1394 isochronous serial audio interface supports 4 × 2 audio channels
- Integrated 512-kbit flash memory
- Supports remote flash programming via the 1394 serial bus (firmware & flash programming utilities supplied by Oxford Semiconductor)
- Debug capabilities using internal UART or JTAG ports
- 3.3-V I/O, 1.8-V core operating voltage
- 100-pin TQFP (14 × 14 × 1 mm)
- Supports audio sample rates of 32 kHz, 44.1 kHz, 48 kHz & 96 kHz, with 16-, 24-, & 32-bit samples
- Supports external audio master clock smoothing
- Supports Mac OS & Windows