Analog Reinvented

ES9016
SABRE32 Ultra 32-bit 8-Channel Audio DAC
Product Brief

The ***ES9016 SABRE32 Ultra DAC*** is a high-performance 32-bit, 8-channel audio D/A converter targeted for consumer applications such as Blu-ray player, audio pre-amplifier, A/V receiver and professional applications such as recording systems, mixer consoles and digital audio workstations.

With ESS patented 32-bit Hyperstream™ DAC architecture and Time Domain Jitter Eliminator, the ***ES9016 SABRE32 Ultra DAC*** delivers a DNR of up to 128dB and THD+N of -110dB, a performance level that will satisfy the most demanding audio enthusiasts.

The ***ES9016 SABRE32 Ultra DAC***'s 32-bit Hyperstream™ architecture can handle up to 32-bit PCM data via I2S input, as well as DSD or SPDIF data. The ***ES9016 SABRE32 Ultra DAC*** supports up to 200kHz input sampling rates and consumes less than 100mW.

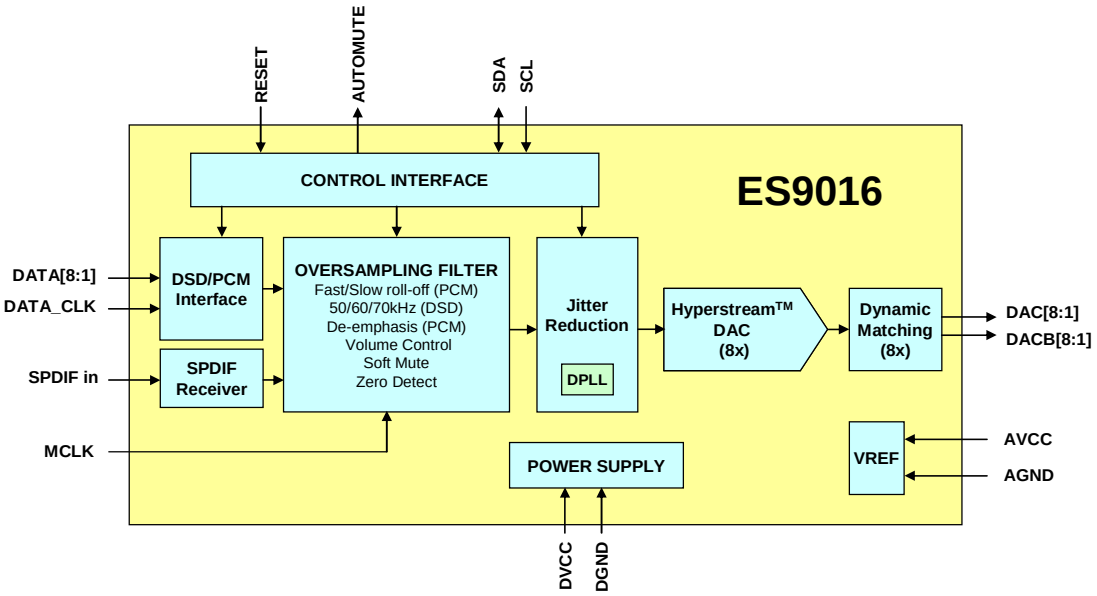
FEATURE	DESCRIPTION
DAC Resolution	o 32-bit Patented Hyperstream™ DAC
Input Resolution	o 32-bit
Jitter Elimination	o Patented Time Domain Jitter Eliminator
64-bit accumulator and 32-bit processing	o Distortion free signal processing
DNR	o 128dB (stereo mode) o 124dB (8-channel mode)
THD+N	o -110dB
Input Modes	o SPDIF with 8-input MUX o PCM (I2S, MSB/LSB) o DSD o External 8x Digital Filter
Digital Filter	o 32-bit architecture o Selectable rolloff frequency o Per-channel user customizable
DSP Functions	o Click-free soft mute and volume control o Programmable Zero detect o De-emphasis for 32, 44.1 and 48kHz sampling
Package	o 48-LQFP
Power	o 100mW

APPLICATIONS

- Blu-ray / SACD / DVD-Audio player
- Audio preamplifier and receiver
- A/V processor
- Professional audio recording systems and mixing consoles
- Digital audio workstation

ES9016 Product Brief

FUNCTIONAL BLOCK DIAGRAM



APPLICATION DIAGRAM