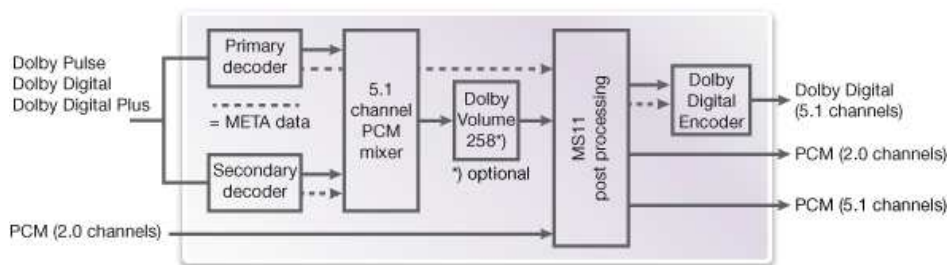# DesignWare ARC Audio Dolby MS11 Decoder

DesignWare® ARC™ Audio Dolby® MS11 Multistream decoder software for the DesignWare ARC Sound AS211SFX and AS221BD audio processors enables decoding of audio formats required for worldwide and specific local broadcast standards that include Dolby Digital Plus, Dolby Digital, HE AAC and AAC.



Dolby MS11 supports audio description services delivered in a receiver-mix style, using two simultaneous decoders, which means that broadcasters can transmit a single mix. The DesignWare ARC Audio Dolby MS11 software is configurable as either MS10 or MS11 (which adds multi-channel output and a 5.1 PCM mixer).

📄 DesignWare ARC Audio Dolby MS11 Multistream Decoder

## Highlights

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- Configurable single / dual decoder (main & associate channel)
- 5.1 channel PCM mixer
- Error concealment
- Inputs
  - Dolby Pulse (HE AAC v2, AAC) up to 5.1 channels, 8-96 kHz
  - Dolby Digital, Dolby Digital Plus up to 5.1 channels, 32/44/48 kHz
  - External PCM: 2.0 channels (configurable)
- Outputs
  - Dolby Digital (2.0 – 5.1 channels)
  - PCM: 2.0 channels (48 kHz / 16 bits)
  - Multichannel PCM: up to 5.1 channels (48 kHz / 16 bits)
- Dolby MS10/MS11 post-processing
  - Dynamic Range Control (DRC)
  - Dialog normalization
  - Two-channel (stereo) down-mixing
  - Sample Rate Conversion (SRC)
- Dolby Volume 258 (optional, to be licensed separately)
- Robust to memory latency: 56 MHz processor load at 100 cycles latency

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