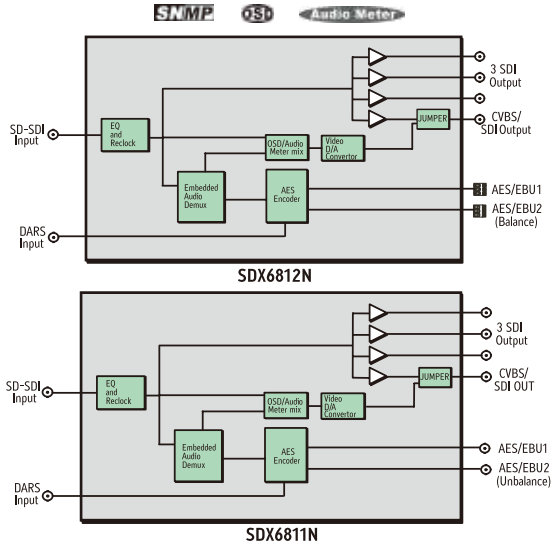
SDX6811N/SDX6812N

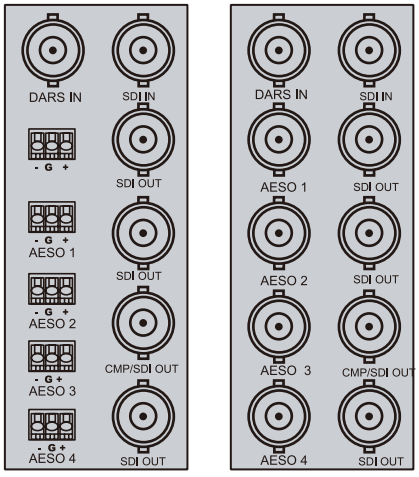
Unbalanced/Balanced AES Audio De-embedding Module

The SDX6811N/SDX6812N is an AES/EBU de-embedding module, which de-embeds 4 channels (2 pairs) of AES/EBU audio and supports SDI outputs with equalization and reclocking. The user can choose any channel out of 4 embedded audio groups as an audio output or the user can choose the synthesized audio as an output signal.

Each module has its own distinct feature as follows:

The SDX6811N has unbalanced AES outputs, and the SDX6812N has balanced AES outputs.





Features

- *De-embedding audio from SD-SDI signal*
- *2 pairs (4 channels)of AES/EBU outputs*
- *De-embedding in 525/625 video standard*
- *SDI output with equalization and reclocking*
- *One channel analog PVW output*
- *27 available signal sources for each audio output*
- *SD-SDI video input auto-detect and input status feedback*
- *16-bit, 20-bit and 24-bit audio processing*
- *4-channel audio metering display*
- *Generating Tone signal at fixed frequency rate*
- *Maximum 1.3 seconds audio delay, invert and mute*
- *EDH Monitoring*
- *Freeze frame, black field and video loss detection*
- *Audio loss and audio overload monitoring*

Specifications

SDI Video Input
Standards: SMPTE259M-C; 270 Mbps, 525/625 component
Connector: BNC(IEC 169-8)
Impedance: 75 ohm
Return Loss: >18 dB to 270 MHz
Equalization: Auto equalizing to 30dB@270 Mbps

SDI Video Output
Standards: SMPTE259M-C; 270 Mbps, 525/625 component
Connector: BNC (IEC 169-8)
Impedance: 75 ohm
Return Loss: >18 dB to 270 MHz
Signal Level: 800 mV +/-10%
DC Offset: 0 V ± 0.5
Rise and Fall Time: 400-1500 ps (20% to 80% of amplitude)
Overshoot: <10% of amplitude
Jitter: <0.2 UI (740 ps) (peak to peak)

Balanced DARS Input
Connector: 3-pin connector
Sensitivity: < 200mv
Impedance: 110 ohm +/- 20% (0.1 to 6 MHz)
Maximum Input Level: 10V(peak to peak)
CMR Ratio: >30 dB below output signal (0 to 6 MHz)

Unbalanced DARS Input
Connector: BNC(IEC 169-8)
Sensitivity: < 200mv
Impedance: 75 ohm
Return Loss: >35 dB, 0.1 to 6.0 MHz

**Specifications are subject to change without notice.*

Analog Composite Video Output
Standards: NTSC, PAL or PAL-M
Level: 1Vp-p +/-3dB
Impedance: 75 ohm
Return Loss: >40 dB to 5 MHz
DC Offset: 0V±0.05 V
Frequency Response: ±0.2 dB to 5 MHz
IDifferential Gain: <1%
Differential Phase: <1.5°
Group Delay: +/-10ns to 5 MHZ

Unbalanced AES Output (applicable to SDX6811N only)
Connector: BNC(IEC 169-8)
Output Level: 1.0 V +/-10% (peak to peak)
DC Offset: 0.0V±50.0mV
Rise and Fall Time: 30 to 44 ns (10% to 90% of amplitude)
Impedance: 75 ohm
Return Loss: >25 dB, 0.1 to 6.0 MHz

Balanced AES Output (applicable to SDX6812N)
Connector: 3-pin connector (male)
Output Level: 2.0 to 7.0 V (peak to peak)
Jitter: +/-20 ns
Rise and Fall Time: 5 to 30 ns (10% to 90%)
Impedance: 110 ohm +/- 20% (0.1 to 6 MHz)
CMR Ratio: >30 dB below output signal (0 to 6 MHz)

Power Consumption
Power: 3.25W
Positive Rail: 500 mA
Negative Rail: 10 mA

Ordering Information

SDX6811N
Unbalanced AES audio de-embedding module

SDX6812N
Balanced AES audio de-embedding module