

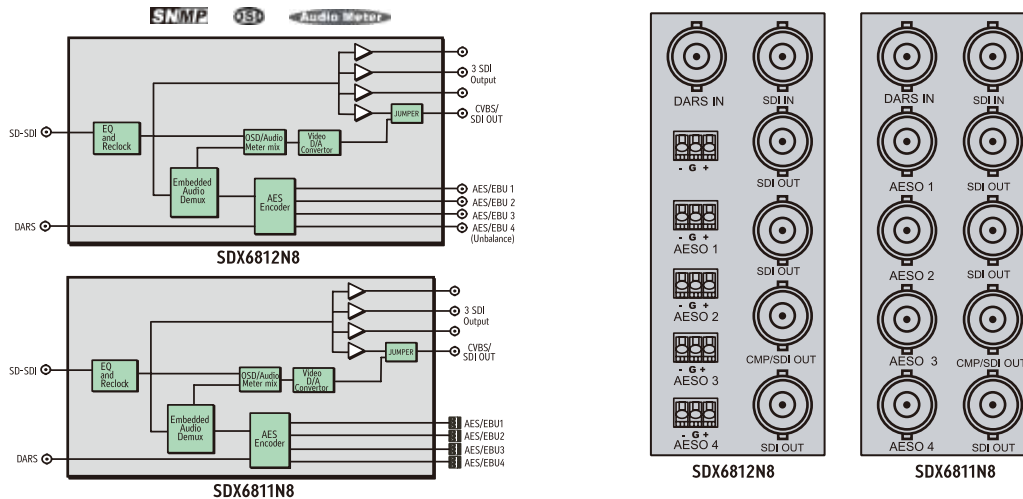
# SDX6811N8/SDX6812N8

## 8-Channel Unbalanced/Balanced AES Audio De-embedding Module

The SDX6811N8/SDX6812N8 is an 8-channel AES audio embedding module.

Both modules can de-embed 8 channels (4 pairs) of AES audio from the SD-SDI signals and support the relocked SDI output. The user can choose any channel out of the four 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 SDX6811N8 has unbalanced AES output, and the SDX6812N8 has balanced AES output.



### Features

- De-embedding audio from SD-SDI signal
- 4 pairs (8 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  
 Quantization: 10-bit  
 Connector: BNC(IEC 169-8)  
 Impedance: 75 ohm  
 Return Loss: >18 dB to 270 MHz

#### SDI Video Output

Standards: SMPTE259M-C; 270 Mbps, 525/625 component  
 Quantization: 10-bit  
 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)

#### Unbalanced AES Output

(applicable to SDX6811N8 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 SDX6812N8)

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)

#### 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  
 Differential Gain: <1%  
 Differential Phase: <1.5°  
 Group Delay: +/-10ns to 5 MHz

#### 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

#### Power Consumption

Power: 3.5W  
 Positive Rail: 600 mA  
 Negative Rail: 10 mA

\*Specifications are subject to change without notice.

### Ordering Information

#### SDX6811N8

8-channel unbalanced AES audio de-embedding module

#### SDX6812N8

8-channel balanced AES audio de-embedding module