

HMX6811N/HMX6812N/HMX6811N-3G/HMX6812N-3G

Unbalanced/Balanced AES Audio Embedding Module for HD-SDI

The HMX6811N/HMX6812N supports 4 pairs (8ch) of digital audio embedding. The user can choose either input audio or other audio synthesized by the system and set them into any audio group.

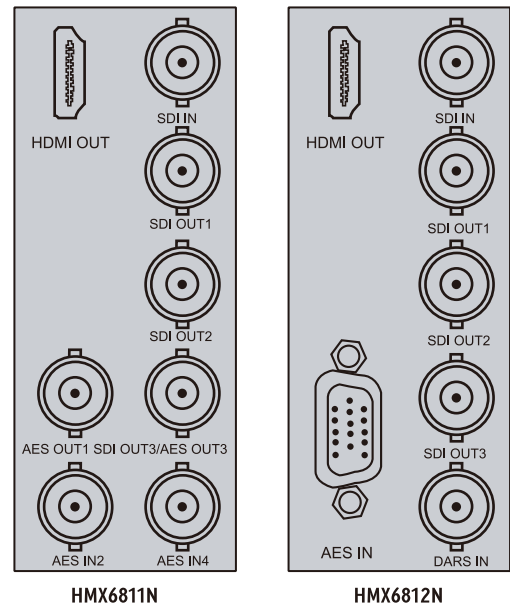
It supports 3G/HD/SD-SDI (after processing) video outputs. It also supports 1ch HDMI output for monitoring, and 8 audio meters can be embedded in to the video to monitor all 8-channels of the embedded audio group(s). Each module has its own distinctive feature as stated below:

HMX6811N: Unbalanced AES Audio Embedding Module for HD-SDI

HMX6812N: Balanced AES Audio Embedding Module for HD-SDI

HMX6811N-3G: Unbalanced AES Audio Embedding Module for 3G/ HD-SDI

HMX6812N-3G: Balanced AES Audio Embedding Module for 3G/HD-SDI



Features

- Supports multi-format audio embedding
- Supports 4 pairs (8ch) digital audio embedding
- Supports 20 bits, 24bits audio embedding
- Supports sample frequency 32kHz-192kHz digital audio input
- SDI output after processing of equalization and re-clocking
- 1ch HDMI PVW output
- Auto-detection of SDI video input and status
- Supports 8ch audio meter display
- Selectable for embedded audio group and embedded audio modes
- Embedding tone signal of fixed frequency
- Audio delay up to 2.7 seconds
- Supports audio gain, audio erasure, audio exchange and etc
- Supports error detection of input EDH/CRC
- Reinsert of EDH/CRC
- Built-in video test signal generator (color bar and black field), and built-in audio test signal
- Supports video loss detection
- Network control

Specifications

Digital Video Input

Digital Video Input: SMPTE424M3G-SDI, SMPTE292M HD-SDI, SMPTE259M SD-SDI
Standard: 75Ω
Resistance: >15dB, 5MHz to 3GHz;
Return Loss: SD-SDI:0-300mBelden1694A; HD-SDI:0-100mBelden1694A
Equalization: 3G-SDI:0-120m Belden 1694A
Support Format: 480i, 576i, 1080i60, 1080i50, 1080Psf24, 1080p60, 1080p50, 1080p30, 1080p25, 1080p24, 720p60, 720p50

Digital Video Output

Signal Format: SMPTE 259M-C; 270 Mbps, 525/625 component
Connector: BNC (IEC 169-8)
Resistance: 75Ω
Return Loss: >15dB to 270MHz
Signal Level: 800 mV ± 10%
DC Offset: 0 V ± 0.5
Rise and Fall Time: 400 to 1500ps(20% to 80% of amplitude)
Overshoot: <10% of amplitude
Jitter: <0.2UI (740ps) peak, typical < 500ps

Unbalanced Digital Audio Input (Applicable to HMX6811N only)

Connector: BNC (IEC 169-8)
Resistance: 75Ω

Signal Standard: AES 3:1992, AES3id:1995, SMPTE276M
Rise and Fall Time: 30 to 44ns
Sampling Rate: 30KHz to 96KHz
Bit: 20bits, 24bits
Equalization: >200m

Balanced Digital Audio Input (Applicable to HMX6812N)

Connector: 3-pin Connector
Signal Standard: AES 3:1992, AES3id:1995, SMPTE276M
Resistance: 110Ω
Rise and Fall Time: 5 to 30ns
Sampling Rate: 30KHz to 96KHz
Bit: 20bits, 24bits
Equalization: >200m

HDMI Output

Signal Format: 1080i60, 1080i50, 1080Psf24, 1080p60, 1080p50, 1080p30, 1080p25, 720p60, 720p50, 480i, 576i
Standard: HDMI 1.3 (CEA-861-B) 2.25Gbps
Connector: HDMI
Equalization: 0-30m

*Specifications are subject to change without notice.

Ordering Information

HMX6811N

Unbalanced AES Audio Embedding Module for HD-SDI

HMX6812N

Balanced AES Audio Embedding Module for HD-SDI

HMX6811N-3G

Unbalanced AES Audio Embedding Module for 3G/ HD-SDI

HMX6812N-3G

Balanced AES Audio Embedding Module for 3G/HD-SDI

HD6800-OPT-HO

HDMI Output Interface Board