

SMX6811N(S)/SMX6812N(S)

SDI Video Input

Video Standard: SMPTE259 M-C; 270 Mbps, 525/625 component

Connector: BNC (IEC 169-8)

Impedance: 75 ohm

Return Loss: >18 dB to 270 MHz

Balanced AES Output

Output: 2 pairs (SMX6811N and SMX6811NS)

Sensitivity: < 200 mV

Impedance: 110ohm + /- 20% (0.1 to 6 MHz)

Level: 2-7 Vpp

Rise and Fall Time: <20 ns

Jitter: +/-20 ns

Unbalanced AES Input

Input: 2 pairs (SMX6812N and SMX6812NS)

Connector: BNC (IEC 169-8)

Impedance: 75 ohm

Return Loss: >25 dB, 0.1 to 6.0 MHz

Sensitivity: <100 mV

Unbalanced AES Output

Output: 2 pairs (SMX6812N and SMX6812NS)

Connector: BNC(IEC 169-8)

Impedance: 75 ohm

Return Loss: >25dB, 0.1 to 6MHz

Level: 1.0V+/-10%

Rise and Fall Time: 30-44 ns

Jitter: +/-20 ns

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 AES Input

Input: 2 pairs (SMX6811N and SMX6811NS)

Connector: 3-pin (male)

Sensitivity: <200 mV

Impedance: 110ohm + /- 20% (0.1 to 6 MHz)

Maximum Input Signal: 10 V (peak to peak)
CMR Ratio: 0-7V (0 to 20 KHz)

SDI Video Output

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

Power Consumption

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

Specifications Ordering Information

SMX6811N

2-channel unbalanced AES/EBU embedding module with 2 channels of unbalanced outputs

SMX6811NS

2-channel unbalanced AES/EBU embedding module with 2 channels of unbalanced outputs and audio tracking

SMX6812N

4-channel balanced AES/EBU embedding module with 4 channels of balanced AES/EBU outputs

SMX6812NS

4-channel balanced AES/EBU embedding module with 4 channels of balanced AES/EBU outputs and audio tracking