

Specifications

SDI Video Input

Number of Inputs: 1
Standards: SMPTE 292M HD-SDI or 259M SD-SDI coaxial
Cable Signal:
Connector: BNC (IEC169-8)
Impedance: 75 ohm
Return Loss: HD-SDI: >18dB 5MHz to 1485MHz
SD-SDI: >18dB to 270MHz
Equalization: HD-SDI: 120m Belden 1694A Cable
SD-SDI: 230m Belden 8281 Cable

SDI Video Output

Number of Outputs: 2
Standards: 259M SD-SDI coaxial cable signal
Connector: BNC(IEC 169-8)
Impedance: 75 ohm
Return Loss: HD-SDI >18dB 5MHz to 1485MHz
SD-SDI >18dB to 270MHz
Signal Level: 800mV±10%
DC Offset: 0 V ± 0.5
Rise and Fall Time: HD-SDI: <270ps
SD-SDI: 400-1500ps (20%~80% of amplitude)
Overshoot: <10%
Jitter: <0.2UI (740ps) peak to peak

Analog Composite Video Output

Standards: NTSC, PAL
Level: 1Vp-p +/-3dB
Connector: BNC (IEC169-8)
Impedance: 75Ω
Return Loss: >40dB to 5MHz
DC Offset: 0V±0.05 V
Frequency Response: +/-0.5dB to 5MHz
Differential Gain: <1.5%
Differential Phase: 1.5°
S/N Ratio: 58dB to 5.75MHz

Balanced AES Output

Number of Outputs: 2
Signal Format: Balanced AES
Connector: DB9
Impedance: 110Ω±20%(0.1 to 6MHz)
Signal Level: 2 to 7V peak
Sampling Rate: 48KHz
Jitter: ±20ns
Rise and Fall Time: 5 to 30 ns(10% to 90% of amplitude)
Bit: 20

SDI Video Loop Out

Number of Outputs: 2
Standards: SMPTE 292M HD-SDI or 259M SD-SDI coaxial cable signal
Connector: BNC (IEC169-8)
Impedance: 75 ohm
Return Loss: HD-SDI >18dB 5MHz to 1485MHz
SD-SDI >18dB to 270MHz
Signal Level: 800mV±10%
DC Offset: 0V±0.5V
Rise and Fall Time: HD-SDI: <270ps
SD-SDI: 400-1500ps (20%~80% of amplitude)
Overshoot : < 10%
Jitter : <0.2UI (740ps) peak to peak

Unbalanced AES Output

Number of Outputs: 2
Signal Format: Unbalanced AES
Connector: DB15
Impedance: 75Ω
Signal Level: 1V peak ±10%
Sampling Rate: 48KHz
Return Loss: >25dB, 0.1 to 6MHz
Rise and Fall Time: 30 to 44 ns(10% to 90% of amplitude)
Bit: 20

Analog Audio Output

Number of Outputs: 4
Standards: Balanced Analog
Connector: DB15
Impedance: 66Ω
THD: +N 0.004% @ 1 kHz 0 dBFS
S/N Ratio: >107dB
Return Loss: >25dB, 0.1 to 6MHz
Frequency Response: 20 Hz - 20 kHz: 0 ±0.15 dB

Power Consumption

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

**Specifications are subject to change without notice.*

Ordering Information

HDC6831N

HD-SDI downconverter/de-embedder/video & audio