



Compact 1 RU Profile for
Broadcast Video

SBT3-5300 SERIES



The Streambox Platform

Target Markets and Applications

Backhaul video transport • Digital newsgathering • Satellite video transport • Newsgathering Trucks • Point-to-point and point-to-multipoint video distribution • Law enforcement • Surveillance and security • Centralcast television • Telemedicine • Online and distance learning

With a compact 1-RU profile, the SBT3-5300 is ideal for use in live news broadcasts, distribution to cable headends, integration into news trucks, and other video delivery applications where small size, high reliability, superior performance, and low power requirements are important.

The SBT3-5300 model supports genlock and features dual Gigabit Ethernet, composite SD-SDI inputs with embedded, balanced, and AES audio. The encoder's half duplex mode also enables it to be used as a decoder with multiple SDI and composite outputs.

The system relies on the Streambox® ACT-L3™ technology already widely used by news organizations worldwide and adds the benefit of a smaller, lighter weight chassis. All ACT-L3™ systems, including the SBT3-5300, are extremely energy efficient and include a robust error correction feature set. With adjustable latency, user-configurable presets, and seamless local or remote management, the SBT3-5300 is a truly flexible video transport solution.



SOLUTION FEATURES

- Unrivaled video compression and quality at low data rates
- 4:2:0 and 4:2:2 color profiles
- Best-of-class performance and reliability with advanced networking features
- Advanced forward error correction and burst error protection.
- Low end-to-end latency. Provides adjustable latency for video conferencing or broadcasting
- Seamless local or remote system management via an easy-to-use web interface
- Optional store and forward feature for enhanced storage, management, and transmission of video over packet-based networks
- Half duplex mode (encoder only) is provided for easy switching between encoder and decoder modes
- User friendly back panel access to AV ports
- User configurable presets for quick and flexible setup



ENCODER



DECODER



TECHNICAL SPECIFICATIONS

Video Formats:	NTSC/59.94i, PAL/50i
Video Encoding:	Resolution: D1, 3/4, 2/3, 1/2, CIF, QVGA Frame rate: full, 3/4, 1/2, 1/3, 1/4, 1/5, 1/10
Audio Codecs:	AAC, GSM, and CELP Up to 64 Kbps per channel 44.1 or 48 KHz sampling rate
Streaming Rate:	User selectable from 64 Kbps to 8 Mbps
Audio Inputs:	2-ch SDI, 2-ch AES, 2-ch Analog XLR
Audio Outputs:	2-ch SDI, 2-ch AES, 2-ch Analog XLR
Closed Caption:	Line 21 encoding, transmission, and decoding, V-ANC
Video System:	D/A and A/D. Time-Base Correction for analog video. Genlock. Audio embedding/de-embedding
Video Inputs:	Composite, SDI (SMPTE-259M), Genlock
Video Outputs:	Composite, SDI (SMPTE-259M), Genlock
Fixed Output:	NTSC/PAL conversion
Encoding Latency:	Adjustable from .2 seconds to 10 seconds
Video Post Filtering:	Advanced interlaced/progressive post filtering, including de-blocking, de-mosquito, and anti-aliasing
Video Pre-filtering:	Noise pre-filter, adjustable de-interlacing
Network Interfaces:	Ethernet
Network Protocol:	Stream: Multicast/Unicast UDP and IP Web Interface and Remote Desktop: TCP
Setup & Control:	Front access LCD panel and keypad. SSD storage for reliability and upgrades. VGA output, USB ports
Forward Error Correction:	Adjustable, 0% to 50%, Reed-Solomon, Parity, Shuffle
Options:	Store and Forward, Redundant PSU (-R)
Power Requirement:	100-240 V AC 50/60 Hz
Power Consumption:	130W (Decoder), 140W (Encoder) maximum
Dimensions:	1 RU 1.77"H x 18.9"W x 20.67"D 4.5cm H x 48cm W x 52.5cm D
Weight:	Single PSU Model: 20 lbs, 9 kg Redundant PSU Model (-R Option): 25 lbs, 12 kg



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