



Streambox® SBT3-5100 Video Transport
Streambox® SBT3-7100 Video Transport



Plug-and-Connect Real-Time Video Acquisition

The Streambox® SBT3-5100 and SBT3-7100 Video Transport solutions are true 24/7 plug-and-connect live and file-based video transport solutions that deliver stunning full-motion, full frame interlaced broadcast video and audio over satellite and IP-based networks. Streambox® ACT-L3™ encoders excel over low bandwidth connections while providing unrivaled video compression and quality.

Streambox® ACT-L3™ Video Transport solutions have been specifically developed to meet the performance, compression, and quality requirements of broadcasters, government agencies, and enterprises. Our products are highly reliable and flexible, making them the video transport solution of choice for customers around the world.

Solution Overview

The SBT3-5100 and SBT3-7100 Video Transport solutions provide best-of-class performance and reliability due to their unrivaled video compression and error correction technologies. The systems also enable broadcasters and others to leverage the store and forward option which provides enhanced storage, management, and transmission of video over packet-based networks.

The SBT3-5100 solution is our primary broadcast video transport system. The SBT3-7100 includes the same features as the SBT3-5100 plus:

- Dual networking for Ethernet or T1/E1
- Multi-channel audio with up to six channels of embedded SDI

Streambox® ACT-L3™ Codec

The ACT-L3™ codec features an advanced proprietary video compression technology optimized for interlaced video. It is developed specifically for broadcast video and provides more efficient compression than MPEG and H.264. ACT-L3™ is highly adaptable to differing data rate requirements.

The robust family of ACT-L3™ Video Transport solutions features innovative error correction and bandwidth shaping technologies which enable users to manage, control, and mitigate packet loss and correct irregularities common to video delivery over packet-based networks.

Solution Reliability

The SBT3-5100 and SBT3-7100 solutions are designed for 24/7 unattended use. Features include:

- Video and audio signal re-connect upon signal loss
- Encoder/decoder restart in case of video/audio irregularities, large packet loss or extended signal loss
- Immediate system restore, upon power outage or system reset

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
- Cost-effective newsgathering and video conferencing
- 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

Target Markets and Applications

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

Streambox Platform Solutions

- ACT-L3™ Encoder(s) and Decoder(s)
- Streambox® Broadcast Server
- Streambox® Distribution Server
- ACT-L3™ Full Duplex
- Streambox® Store and Forward and Play-out
- Dual networking for Ethernet or T1/E1 (SBT3-7100 only)
- Multi-channel audio with six channels of embedded SDI (SBT3-7100 only)
- Half duplex mode (encoder only) is provided for easy switching between encoder and decoder modes
- User configurable presets for quick and flexible setup

Technical Specifications

Video Formats:	NTSC/60i, 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 Single T1 at 1.5 Mbps, dual T1 at 3 Mbps Single E1 at 2 Mbps, dual E1 at 4 Mbps
Audio Inputs:	2-ch SDI (5100), 6-ch SDI (7100), 2-ch AES, 2-ch Analog XLR
Audio Outputs:	2-ch SDI (5100), 6-ch SDI (7100), 2-ch AES, 2-ch Analog XLR
Closed Caption:	Line 21 encoding, transmission, and decoding
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
Encoding Latency:	Adjustable from 200 ms 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, optional T1/E1
Network Protocol:	HDLC for T1/E1, multicast/unicast UDP for IP, ASI
Setup & Control:	Front access LCD panel and keypad. Solid- state Compact Flash storage for reliability and upgrades. VGA output, USB ports
Forward Error Correction:	Adjustable, 0% to 50% Reed-Solomon, Parity, Shuffle
Options:	Store and Forward, T1/E1 interface
Dimensions:	2 RU 3.5"H x 16.75"W x 16.25"D 8.9cm H x 42.5cm W x 41.3cm D
Weight:	25 lbs, 11.3 kg

About Streambox, Inc.

Streambox provides a single platform for live and file-based video transport and acquisition over IP. The platform comprises clients - from small form factor mobile devices and laptops - to rule-based video management and play-out systems.

The company's scalable solutions, based on the innovative ACT-L3™ codec, can be integrated into all IP-centric broadcast and broadband operations.

Learn more at www.streambox.com.



www.streambox.com

sales@streambox.com
+1 206.956.0544 Ext. 222