

Transport your
bTS transparently
over your existing
network!

bTS StreamKeyer

TSK-1010



Key features:

- Fully compliant with MPEG-TS standard
- Transport of bTS totally transparent for SFN
- Reduced protocol data overhead (<5%)
- User-selectable TX or RX mode
- Adjustable output data rate
- SI/PSI Table generation
- Low complexity decompression mechanism
- Ready to Brand 1RU Rack Solution

Description

The bTS StreamKeyer comes as a stand-alone system especially dedicated to encapsulate/des-encapsulate the bTS stream (204 bytes format) into a standard 188 byte Transport Stream. The bTS format which is required to feed ISDB-Tb transmitter consists of 188 useful bytes + 8 bytes of signaling and 8 additional bytes for data protection. This extended byte format is sometimes not compatible with current distribution network infrastructure and interfaces, initially designed for 188 bytes format.

The bTS StreamKeyer technology designed by TeamCast authorizes to reuse existing network infrastructure to transparently convey the bTS stream coming out of the ISDB-Tb Re-multiplexer located at the head-end towards the different transmitter sites.

Simple and innovative protocol

The bTS StreamKeyer implements a proven and open encapsulation protocol based on the MPEG-TS Private Section format. This protocol provides best of class performance in term of data overhead (less than 5%) with a very low latency. Furthermore, it guarantees the total transparency of the network to carry the initial bTS stream, keeping its original packet organization and timing. Consequently, the bTS StreamKeyer is suitable to feed ISDB-Tb transmitters operating in SFN (Single Frequency Network) mode.

Reducing ISDB-T_b Terrestrial Network CAPEX cost

The bTS StreamKeyer technology has been carefully designed to reduce the decompression process complexity as much as possible. Therefore, the decompression mechanism, required at the transmitter sites to extract the bTS from the TS stream can be easily implemented directly within the TeamCast ISDB-Tb modulators. The objective is definitely to avoid any extra equipment (stand-alone decompressor) and to reduce the cost of materials at different transmitter sites. This strategy meets Broadcaster's constant demand to reduce investment and to optimize CAPEX network cost when deploying a terrestrial TV network.

Ready to brand 1RU rack system

The bTS StreamKeyer comes as a ready to use and ready to brand 1RU rack form factor product. System integrators can include the bTS StreamKeyer solution into their own product portfolio and can address expressed demands by Broadcasters.

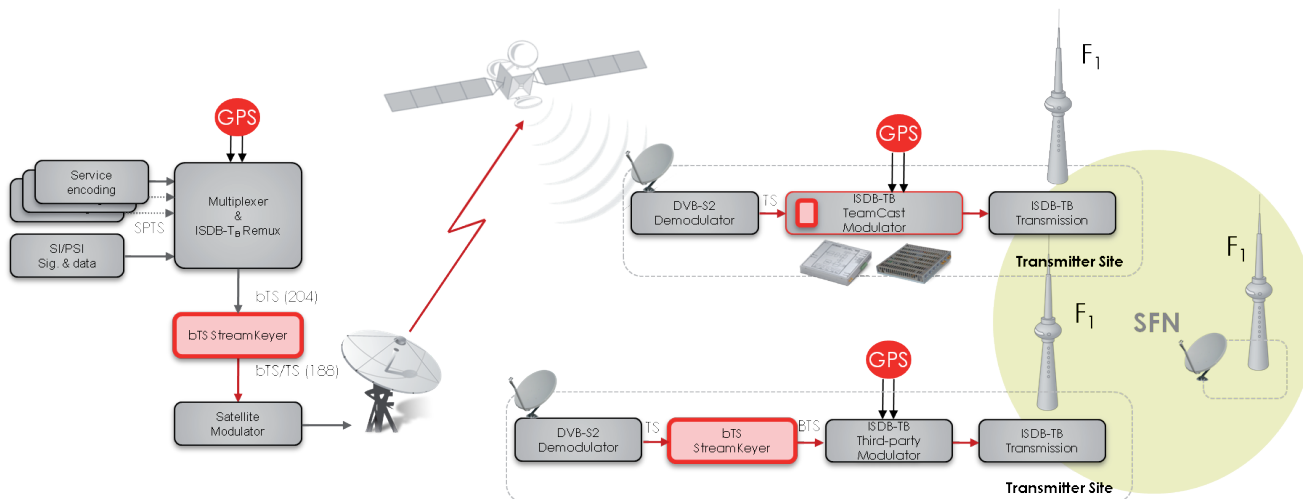
bTS StreamKeyer

TSK-1010

Connectors



Use case example



Specifications¹

■ Standards

- o DVB-ASI EN 50083-9, ETSI TR 101 891
- o MPEG-TS ISO/IEC 13818-1
- o ABNT NBR 15601 / 15602-3 / 15608-1 (bTS 204 Bytes)

■ ASI Stream Interfaces

- o 2 x ASI input connectors - BNC 75 Ω - 50 Mbps max
- 188/204 bytes
- o 2 x ASI output connectors - BNC 75 Ω - 150 Mbps max
- 188 bytes

■ Stream process

- o SI/PSI generation: PAT, PMT, NIT and SDT
- o Adjustable output data rate up to 150 Mbps
- o Encapsulation overhead ratio: 22/21

■ Clock and Synchronization

- o High quality internal clock
- o 10 MHz reference clock input

■ Control & Monitoring

- o 1 x RS232 serial control port
- o Delivered with control software suite

■ Physical

- o Dimensions: 376 x 483 x 44 mm
- o Weight: 6.5 Kg
- o Operating temperature range: 0 °C to 50 °C
- o Power supply: 90 to 240VAC - 50 Hz - 50 W

Ordering Information

xTTR-TSK0-1010	bTS StreamKeyer 1RU Rack form factor
xTTO-MIS7-3000	bTS StreamKeyer S/W license for MIS Modulator
xTTO-MHX7-3000	bTS StreamKeyer S/W license for MHX Modulator

¹ Specifications are not contractual and are subject to revision without notice.

TeamCast Technology
Centre Alphas
Espace Performance
35769 Saint-Grégoire Cedex - France
Tel: +33 (0) 2 23 25 26 80
Fax: +33 (0) 2 23 25 26 85

TeamCast Inc.
The Burnham Center, Suite 1865
111 West Washington Street
Chicago, IL 60602 - USA
Tel: +1 312 263 0033
Fax: +1 312 263 1133

TeamCast

www.teamcast.com
Contact: info@teamcast.com