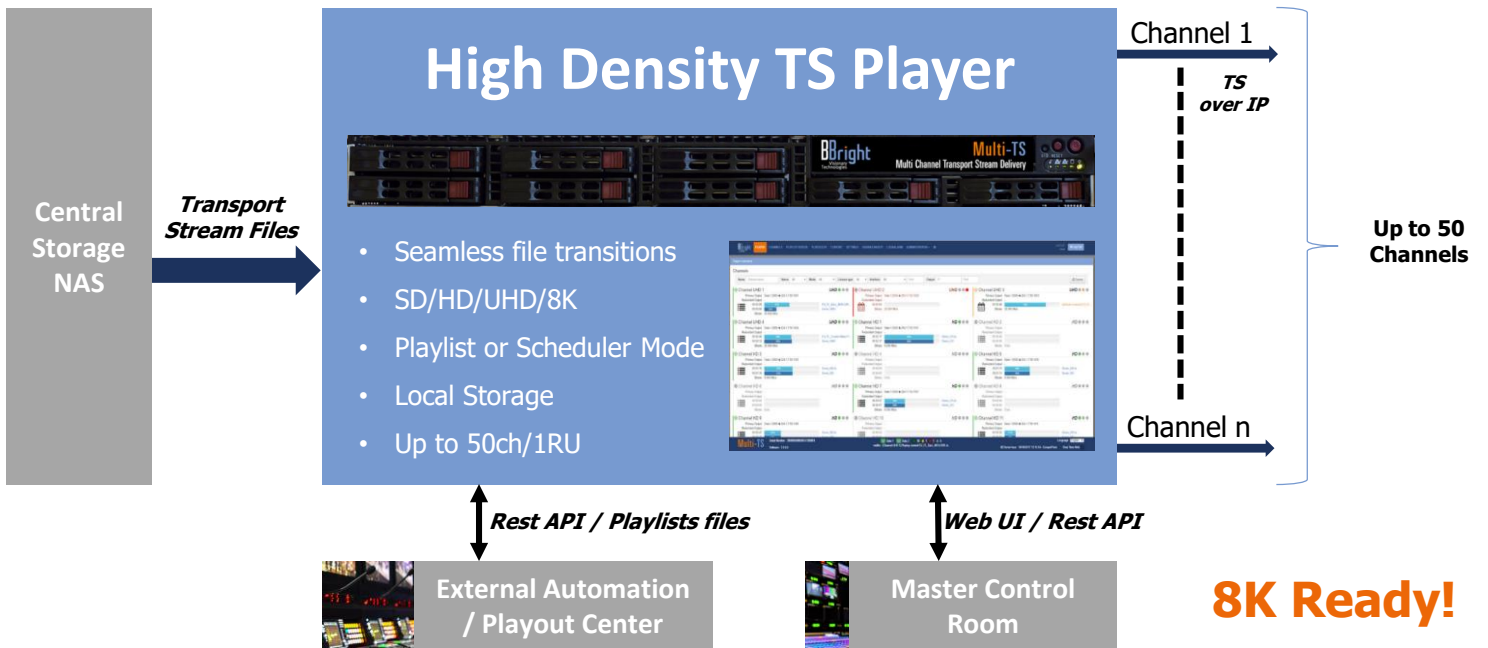


■ Highlights

- ✓ Seamless file transition
- ✓ Load pre-encoded Transport Stream Files
- ✓ SD / HD / UHD / 8K
- ✓ Playlist loop or Scheduler mode
- ✓ Local RAID 5 Storage
- ✓ UP to 50 channels per server



■ Specifications

■ Video:

- ✓ Multi-Codec support: HEVC / H264 / MPEG2 / JPEG2000
- ✓ SD, HD, UHD & 8K
- ✓ Up to 130 Mbps per channel
- ✓ HDR: HLG, HDR10, Dolby Vision, SL-HDR1, SL-HDR2

■ Audio:

- ✓ AAC, HE-AAC (v1 & v2), AAC-LC / MPEG-1 Layer II / PCM
- ✓ Dolby Digital, Dolby Digital+, Atmos, DolbyAC-4

■ TS processing:

- ✓ PCR and Continuity Counter processing
- ✓ PTS/DTS Restamping
- ✓ GOP cleaning
- ✓ PID Remapping: 1x Video, 32x Audio, 32x Subtitles
- ✓ Null-packet stuffing for CBR output
- ✓ Raw Mode

■ Monitoring:

- ✓ Video Thumbnails
- ✓ Audio Bargraph for monitoring
- ✓ Bitrate overshoot alarms

■ Inputs:

- ✓ SPTS and MPTS ingest (FTP / NAS) or USB
- ✓ Transport stream container (.ts)

■ Outputs:

- ✓ Multiple SPTS Multicast over IP in UDP or RTP (or MPTS)
- ✓ FEC/SMPTE 2022-1 & 2022-7
- ✓ Stream duplications on secondary Multicast address
- ✓ Max. 500 Mbps combined SPTS outputs

■ Controls:

- ✓ Web UI
- ✓ Rest API
- ✓ 1 + 1 Main and Back-up server's content redundancy
- ✓ Playout control by text-based, xml, json traffic import

■ Chassis & Connectivity:

- ✓ Two IP-bonded GbE ports for GUI control/ingest
- ✓ Two independent GbE ports for TS over IP streaming
- ✓ Redundant power supplies

UHD-TS / Multi-TS / Multichannel Transport Stream Player

Markets and Use Cases

- ✓ Linear Channel
- ✓ Barker Channel / Disaster Recovery
- ✓ Lab TS Source
- ✓ Satellite Service Providers
- ✓ IPTV Service Providers
- ✓ R&D Labs

Storage

Type	Reference	Storage	Hours @ 5 mbits/s	Hours @ 10 mbits/s	Hours @ 20 mbits/s
Appliances	TSO_UHDTS	4x 1TB RAID 5	1 400 hours	700 hours	350 hours
	TSO_MULTITS_SILVER	4x 1TB RAID 5	1 400 hours	700 hours	350 hours
	TSO_MULTITS_GOLD	8x 1TB RAID 5	3 260 hours	1 630 hours	815 hours

User Interface

The screenshot displays the Multi-TS web interface. On the left, a 'Channels' sidebar lists 13 channels with their respective bitrates and names. The main area is divided into 'TS settings' and 'Network' sections. The 'TS settings' section includes options for Raw TS, Bitrate (60000000), Program number (100), and various PID mappings for PMT, Video, Audio, and Subtitle. The 'Network' section shows UDP/RTP settings, FEC, TTL, and output configurations for Data 1 and Redundant Output. Below these, a 'Playback' section shows a video player with a progress bar and 'Video infos' (Codec: HEVC, Profile: Main 10, Resolution: 3840x2160, HDR: HDR10/IPS, Color info: 60000/16200/200, Pixel format: 4:2:0 10b). At the bottom, there are status indicators for interfaces and system information.

Ordering Options

Type	Reference	Description	Compatibility		
Appliances	TSO_UHDTS	Ultra-HD Transport Stream Player with playlist editor and TS processing – 3 TB storage. 1RU. Single Channel	X		
	TSO_MULTITS_SILVER	Multichannel Transport Stream Player. 3TB Storage. Playlist mode and PTS/DTS/PCR reprocessing included. Up to 20 Channels. 1RU.		X	
	TSO_MULTITS_GOLD	Multichannel Transport Stream Player. 7TB Storage. Playlist mode and PTS/DTS/PCR reprocessing included. up to 50 channels. 2RU.			X
Software Options	TSO_MULTITS_PIP	User-license for a single PiP channel		X	X
	TSO_MULTITS_SD	User-license for a single SD channel		X	X
	TSO_MULTITS_HD	User-license for a single HD channel		X	X
	TSO_MULTITS_UHD	User-license for a single UHD channel		X	X
	TSO_MULTITS_8K	User-license for a single 8K channel		X	X
	TSO_UHDTS_SCH	Daily, weekly, monthly scheduler on GUI for UHD-TS playout server External text-based traffic playlists import	X	X	X
	TSO_MULTITS_SCH20	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic playlists import. up to 20 channels playback		X	X
	TSO_MULTITS_SCH50	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic playlists import. Up to 50 channels playback			X