

TLS4000TV Video Encoder

The TLS4000TV is an MPEG-2 encoder with G.703 output interface for television transmission via PDH/SDH radio-relay, fiber-optic and satellite links. The video inputs are either analog composite video or component S-video (PAL, SECAM, NTSC) or serial digital video (SDI, D1). The two stereo audio inputs are either analog or serial digital audio. The TLS4000TV encodes input video following 4:2:2 Studio Profile @ Main Level and then transforms MPEG-2 Transport Stream directly into PDH G.703 data stream by specialized build-in converter to provide complete compatibility with PDH/SDH network. The TLS4000TV provides superior quality of compressed images at data rates from 8,448 Mbps (G.703 E2) to 34,368 Mbps (G.703 E3), or Nx2,048 Mbps, HDB-3, N – from 4 to 16 (inverse multiplexing option, specially for compatibility with SDH multiplexers with E1 inputs), appropriate for television contribution applications. The superior picture quality is based upon original Telecom-LS know-how in the field of video signals real time mode processing. The TLS4000TV also includes NRZ output interface (option) which allows user to feed non-hierarchical data streams to the input of statistical TV MUX. The encoder compression ratio can be varied by user via EIA-232 remote control port. Additional remote control is also available via EIA-232 control port. Output video data stream can be combined with additional 2,048 Mbps E1 data streams (option). The TLS4000TV provides audio signals quality which meets the requirements of J.21 and J.41 ITU Recommendations. The TLS4000TV rugged chassis is 2U. Power supply is auto-ranging 220 VAC, 50 Hz, or 24 V, 20 watts typical. Operating conditions 0° to +50° C, humidity 50% non-condensing.

Certificate of the Ministry of Telecommunication of Russia № OC/1-OT-269.

Interfaces:

- composite input video PAL/SECAM/NTSC;
- input S-video PAL/SECAM/NTSC;
- composite output video PAL/SECAM/NTSC;
- output S-video PAL/SECAM/NTSC;
- CCIR-656;
- Serial digital video interface;
- Two stereo or four independent analog mono channels on XLR connectors;
- Two AES/EBU digital stereo pairs on BNC connectors;
- G.703 interface or serial NRZ interface;
- Nx2,048 Mbps - HDB-3;
- Additional G.703 interfaces for E1 data streams (option);
- EIA-232, EIA-485, V.35, V.11 interface.