

IP/DVB encapsulator/multiplexer MediaSputnik 1102 series

Basic configuration

- ASI Tx up to 10 Mbps;
 - External 27 MHz input;
 - Internal 27 MHz (10⁻⁷ ppm) ;
 - Recovered receive clock ;
 - MPE;

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- MPEG 2 and DVB service table generator;
- PAT/PMT service template tables;
- Unicast/Multicast;
- section packing;
- bit rate control for ASI Tx;
- supporting transport stream forming on ASI Tx in "burst" and "no burst" modes;
- supporting DVB-S2 in CCM
- modes;
- traffic statistics;
- WEB

Optional configurations

- 2. ASI Tx up to 30 Mbps
- 3. ASI Tx up to 90 Mbps
- ASI Rx multiplexing MPEG 2 TS Rx and IP/MPEG2 TS
- 2 ASI Rx; multiplexing MPEG 2 TS 2Rx and IP/MPEG2 TS
- 5 ASI Rx; multiplexing MPEG 2 TS 5Rx and IP/MPEG2 TS
- 7. ULE (Unidirectional Lightweight Encapsulation)
- 8. MPE/LLC-SNAP encapsulation
- 9. VLAN (802.1q)

- High-speed hardware for IP packets in MPEG 2 TS and DVB networks. Encapsulation is processed in MPE mode in compliance with ETSI EN 301 192 (MPE) and RFC 1112 notes. Encapsulator provides DVB-S2 with CCM standard and further extension to ACM and VCM modes.
- MPEG 2 TS packets synchronization is provided by internal and external generators, including "Recovered receive clock" technology (synchronization on input MPEG2 TS)
- Encapsulator provides "burst" mode to work correctly with external multiplexers and monitors.
- Encapsulator has built-in oscillator of MPEG 2 TS and DVB service tables. There are base PAT/PMT tables and optional included templates of service tables in "Basic" configuration.
- Section packing provides increasing of payload as much as possible.
- The option allows increasing bit rate for ASI Tx up to 3 0 Mbps.
- The option allows increasing bit rate for ASI Tx up to 90 Mbps.
- The option includes additional ASI Rx input and allows multiplexing of external ASI Rx stream and internal transport stream.
- Providing input stream PID filtering.
- PCR restamping maintains quality of MPEG 2 TS current PCR jitter none the worse than base.
- The option includes two additional input ASI Rx and allows multiplexing of external ASI Rx stream and internal transport stream.
- Providing input stream PID filtering.
- PCR restamping maintains quality of MPEG 2 TS current PCR jitter none the worse than base.
- The option includes five (4+1) additional input ASI Rx interfaces and allows multiplexing of external ASI Rx stream and internal transport stream.
- Providing input stream PID filtering.
- PCR restamping maintains quality of MPEG 2 TS current PCR jitter none the worse than base.
- The option maintains advanced mode of encapsulation ULE (Unidirectional Lightweight Encapsulation). It is developed in compliance with RFC 4326 in 2005 by ESA and TIA-1073 in 2006.
- ULE provides increasing of payload up to 8-10% in comparison with MPE encapsulation.
- The option provides MPE/LLC-SNAP encapsulation.
- The option provides VLAN tag encapsulation for maintenance of virtual networks.



- 10. DVB Service Tables Insertion
- 11. DVB-RCS Service Tables Insertion
- 12. Analyzer of PSI/SI service tables(for one MPEG 2 TS or MPEG2 TS/IP)
- 13. 2 x ASI Tx
- 14. 2 ASI Tx
- 15. MPEG 2 TS/IP decapsulation for ASI Tx (DVB Gateways)
- 16. IP output (IP/MPEG2 TS/IP encapsulation)
- 17. NCR/PCR inserter (DVB-RCS)
- 18. Redundancy system

- The option extends and generate DVB service tables. Is used to support different DVB services.
- The option extends and generate DVB-RCS service tables (RMT, SPT, TIM, SCT, FCT, TCT, CMT). Is used for synchronization and control of management of DVB-RCS hosts including modems.
- The option allows network operators to analyze service tables for input transport stream. Is used as additional utility for monitoring critical TS.
- PSI/SI analyzer reduces costs on monitoring MPEG2 TS features.
- The option is used for additional ASI Tx. It provides built-in splitter and closely used in redundancy system on MPEG 2 TS monitoring.
- Special option for HUBs with 2 independent IP/DVB interfaces.
- For example: 72 (36+36) MHz satellite transponders.
 - Encapsulator has pre-installed versions: - two independent IP streams on one chassis; - duplication (or cross-redundancy) of one or partial IP/DVB streams.
- The option provides decapsulation of MPEG 2 TS from IP packets for transparent IPTV MPEG 2 TS.
- The option process two encapsulation stages: IP/MPEG 2 TS and MPEG 2 TS/IP, for encapsulator compatibility with facilities that provides MPEG2 TS/IP processing (multiplexers, modulators, etc.).
- The option provides NCR/PCR packets in MPEG2 TS for network synchronization of DVB-RCS.
- The option for redundancy system provides real-time control of redundancy procedures including saving and entering various actual customs and data parameters.