

IP/DVB encapsulator / multiplexer MediaSputnik 1102 series

High Performance

High reliability

High quality



Low cost and reliable IP DVB encapsulator / multiplexer provides intellectual and high performance IP packets and Ethernet frames encapsulation into MPEG 2 TS and DVB streams.

IP/DVB Encapsulator has different extensions for professional solutions and simply integrates in any network.

Real-time encapsulation and MUX TS through Linux kernel

Supports DVB-S2 standards for CCM mode and ACM / VCM mode in future

Full compliance with MultiProtocol Encapsulation (ETSI EN 301 192), Unidirectional Lightweight Encapsulation (RFC 4623 / ESA) and TIA-1073.

Any bitrate and any DVB Multi Streams Tx / Rx with extensions through hardware and software modules

External MPEG 2 TS multiplexing saves PCR jitter and STD (System Target Decoder) model (ISO 13818)

MPEG 2 and DVB Table Insertion, including DVB-RCS Table Insertion

Section packing decreases overhead for set of small TCP and VOIP packets.

NCR Insertion for DVB-RCS networks

WEB GUI and SNMP (MIB private)

Support "Burst" and "No-Burst" modes

Free customizations for HUB adjustment

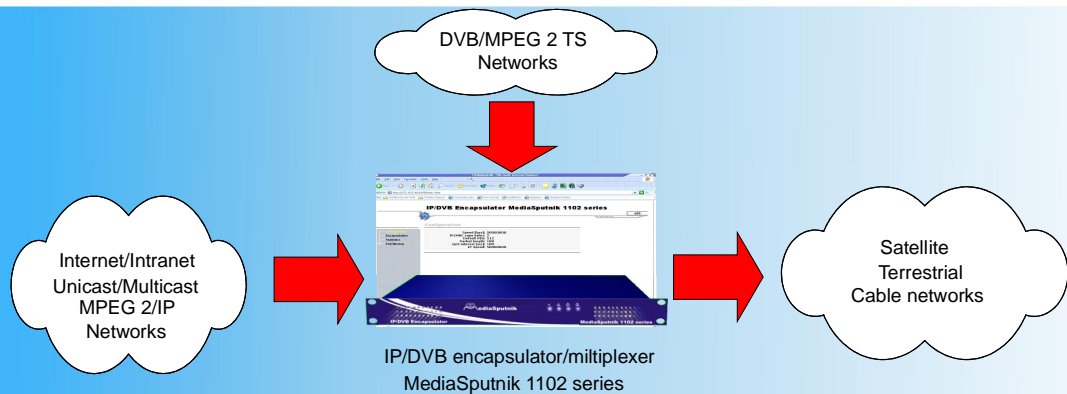
Optional decapsulation MPEG 2 TS / IP streams for DVB Gateways

Applications

- ◆ Any networks with IP and DVB support
- ◆ Reliable Multicast and Content Delivery Networks
- ◆ One or Two way satellite, terrestrial and cable networks
- ◆ DSNG and DVB overlay
- ◆ IPTV networks
- ◆ Digital cinema
- ◆ Educational networks

Advantages and Features

IP/DVB encapsulator MediaSputnik 1102 designed and made from industrial and reliable components. Encapsulator uses “kernel processing” and provide high performance and shared resources for additional capabilities.



Standards

ISO 13818 “Generic coding of moving pictures and associated audio information”

TIA 1073 “Satellite Network System (SNMS) Network Layer Standard”

ETSI EN 301 192 (DVB-S), EN 302 307(DVB-S2), EN 301 790(DVB-RCS)

Features

| | |
|-----------------------------------|--|
| Supported encapsulation types | MPE EN 301192, ULE RFC 4326 and TIA-1073, |
| IP packets processing | MAC address level |
| Types of encapsulated IP packets | TCP, UDP, ICMP |
| IP routing | static, Ipv4 and Ipv6 |
| Multiple-address transfer support | in IP Multicast , RFC 1112 |
| MAC address table | no less than 65000 |
| PID numbers quantity | no less than 8191 |
| PID filtering | unlimited |
| Performance rate | 0,016 - 100 Mbps, to 213 Mbps (optional) |
| Section packing | 40-120 ms delay, 1 ms variable |
| PSI/SI Table Insertion | NIT, SDT, BAT, PAT, PMT, TDT и др. |
| Setting PID and IP addresses | auto and special modes |
| Setting QoS options | setting bitrate for each IP address |
| DVB-RCS support | EN 301 790, TR 101 790 |
| DVB-RCS Table Insertion | RMT, SPT, TIM, SCT, FCT, TCT, CMT |
| Agile PCR-jitter | from ASI-in to ASI-out, without restamping |
| VLAN support | 802.1q |
| Ethernet Bridging support | MPE LLC-SNAP, ULE |
| IGMP support | v.2, v.3 |
| Redundancy | 1:N with MediaSputnik 1601 series |
| PCR Management | NCR Insertion, Jitter control |
| Monitoring & Control | WEB, SNMP (MIB private) |

Interfaces

| | |
|----------------------|-----------------------------------|
| IP data input | 100Base-TX (optional 1000Base-TX) |
| MPEG 2 TS input | ASI |
| MPEG 2 TS output | ASI |
| Monitoring & Control | 100 Base-TX, RS-232 |

Operational Properties

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|-----------------------|------------------|
| Dimensions | 19" x 1U x 460mm |
| Operating temperature | 10 - 50 °C |

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