

DVB-H/DVB-SH/DVB-T iSplicer



DESCRIPTION

The DVB-H/DVB-SH/DVB-T iSplicer is a key component of high revenue generating and cost-optimised Mobile or Terrestrial TV networks. It enables the primary distribution of Mobile or Digital TV content directly to the DVB-H, DVB-SH or DVB-T broadcast towers. The distribution can be done via standard satellite links, microwave, leased lines, IP multicast networks or technologies any mix of these distribution. The dynamic isochronous content adaptation feature allows the highest degree of flexibility in the definition of service packages and enables innovative advertising schemes.

This DVB-H/DVB-SH/DVB-T distribution engine, designed for installation at transmission towers and cellular base stations integrates three major broadcast network functions:

> Distribution Network Adapter

- Enables distribution of MPEG2 Transport Stream via satellite data links or any type of ASI or IP multicast networks.

> Isochronous DVB-H/DVB-SH/DVB-T Splicer

- Dynamic local selection of national, regional and local content.
- Selection of channels directly within the Transport Stream (re-multiplexing).
- Bandwidth optimisation on the distribution link (no redundancy).
- Isochronous operation enabling content selection with SFN and MFN cells.

> MIP Inserter

- Insertion of MIP (Megaframe Information Packet) or SHIP (SH Initialization Packet).

> SHIP Inserter

- Insertion of SHIP (SH-frame Information Packet).

iSplicer is compliant with DVB-H, DVB-SH and DVB-T standards, and fully interoperable with all DVB-H/DVB-SH/DVB-T standard equipment (terminals, encoders, modulators, multiplexers, network adapters, ESG and CA/DRM systems).

The iSplicer is configured in-band, meaning the entire network is managed globally through the central IPE/iSplicer Manager. The DVB modulation parameters are passed to the modulators/transmitters via the MIP/SHIP protocol, allowing central management of the transmission parameters from the Head-End. These parameters can be adjusted centrally over the lifetime of the transmission network.

The different SFN cells in the transmit areas can have different modulation parameters, allowing maximum coverage optimization.

The iSplicer receives, modifies and re-transmits the MPEG2 Transport Stream while assuring the integrity of the modified stream. The iSplicer also guarantees the synchronization between modulators when they transmit at the same frequency. Multiple iSplicers can operate jointly within the same SFN (Single Frequency Network) cell.

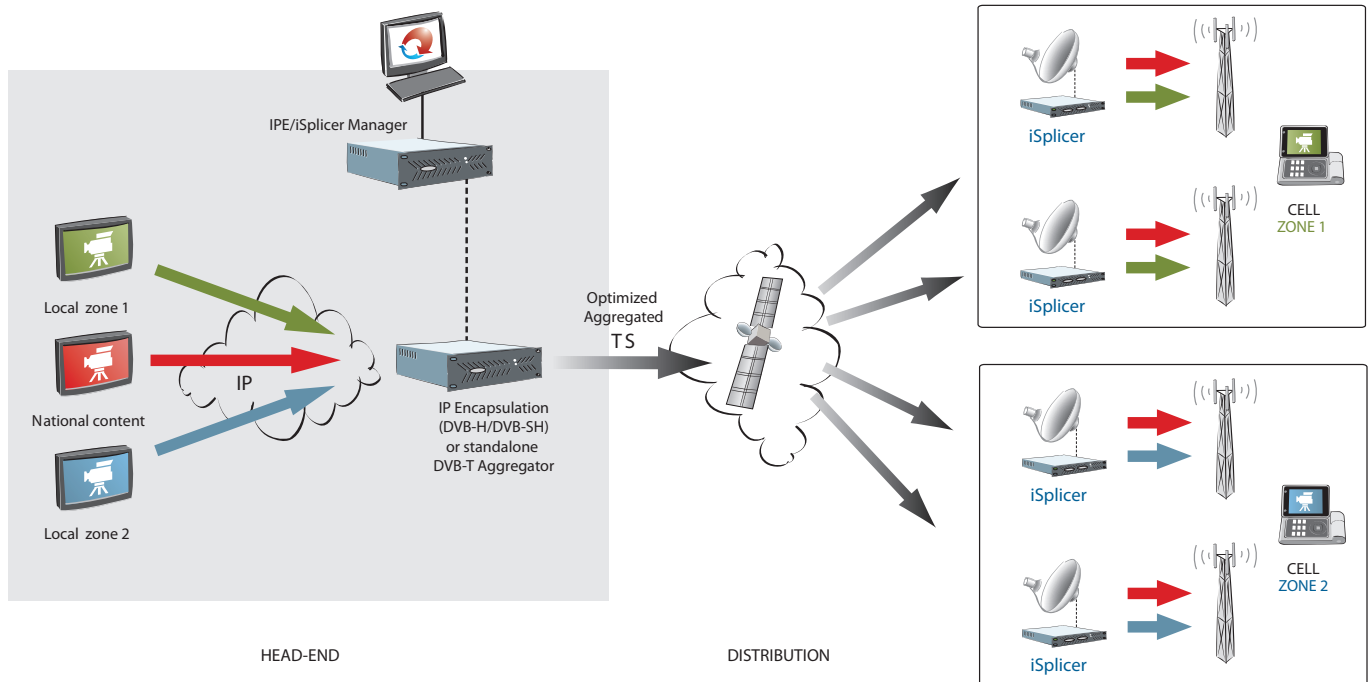
The iSplicer helps to optimize the capital and operating expenses (CAPEX/OPEX) of large DVB-H, DVB-SH and DVB-T deployments, enabling significant cost savings of up to 40%. The iSplicer can also reduce network deployment time, and increase service and advertising revenues thanks to its addressable approach to content and advertising distribution. The number and size of local broadcasting areas can be dynamically defined via the IPE/iSplicer Manager.

BENEFITS FOR MOBILE OR DIGITAL TV BROADCASTERS & CELLULAR OPERATORS

- > Up to 40% reduction of distribution network CAPEX and OPEX
- > Reduced network deployment time
- > Support for local and regional TV content
- > High consumer satisfaction with adapted content
- > Easy integration within transmission towers and 2G/3G base stations
- > Adaptable to future advertising models and innovative content offers

DVB-H/DVB-SH/DVB-T iSplicer

FLEXIBLE MOBILE/DIGITAL TV ARCHITECTURE



SPECIFICATIONS & FEATURES

iSplicer features

- PID selection and filtering
- Transport Stream bitrate adaptation
- SI/PSI table selection for each region
- SFN synchronisation
- MIP/SHIP insertion
- DVB-H/DVB-SH: Delta-T regeneration
- DVB-H/DVB-SH: Time-slicing regeneration
- DVB-T: PCR restamping
- IP to ASI built-in Network Adapter

Hardware Description

Hardware type: Rack mounting
 Dimensions: 426(W)x43(H)x356(L)mm
 (16.8x1.7x14inch)
 Weight: 7 kg
 Power supply: Autoswitch 100-240VAC
 Location: Transmitter site

Optional 3rd party integration: the iSplicer software is ready for integration on Satellite IRD, Modulators or Base Stations

Communication ports

- Input Interfaces: 2x Ethernet 10/100BaseT,
- DVB-ASI BNC 75 ohms (optional)
- Transmit Interface: DVB-ASI BNC 75 ohms
- I/O connectors: local console display, keyboard
- DVB-S/DVB-S2 satellite receiver (available as separate device)

Administration features

- In-band configuration interface (via dedicated PID)
- Central upgrade facility via in-band signalling interface
- Central management from IPE/iSplicer Manager
- Out-band configuration interface (via SNMP)
- Graphical and CLI administration interface for initial configuration and monitoring

Implemented standards

- ETSI TR 101 891
- ISO 13818-1
- ETSI EN 301 192
- ETSI EN 300 468
- ETSI TS 101 191
- ETSI TS 102 585
- ETSI TS 302 583

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