

Network Receiver



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DESCRIPTION

DVB-H and IPTV platforms often redistribute existing content from satellite or other sources like ASI, SDI, digital and analogue audio or video sources.

As broadcast industry is heading for an integration to the "All-IP-World", the GMIT Network Receiver family provides an efficient and cost-effective solution for the transmission of such signals over IP using the standardised MPEG transport stream format.

These IP streams can be used by nearly all regular next-generation media encoders with direct IP input or even for straight re-distribution to an IPTV platform. The output of all Network Receivers is fully MPEG compliant and was tested with encoders and IPTV set top boxes of multiple vendors.

The Network Receivers are equipped with an internal redundancy module for a seamless failover switching and recovery in multicast environments, in case that more than one GMIT Network Receiver is available.

PRODUCT FEATURES

Currently three different GMIT Network Receivers are available: DVBRX, SDIRX and AVRX. All these are capable of the following main features:

- MPEG transport stream output (SPTS or MPTS) via IP-based network connection
- Failover solution with multiple Network Receivers without external management system
- Automatic PID remapping to configurable default PIDs, which allows the usage of default input PID settings on encoder side
- Optional video overlay support in combination with GMIT Interactive Multipath Server
- Optional stream protection by using FEC algorithms (PRO-MPEG FEC) in combination with GMIT X-Bar UDP FEC

DVBRX FEATURES

Beside the main features, the DVBRX Network Receiver provides the following enhanced feature set:

- Reception of MPEG transport stream (MPTS) source material via installed reception cards
- Currently supported: DVB-S, DVB-T, DVB-C, DVB-H and ASI (up to 32 services),
- Optional descrambling if Common Interface (CI) slots are available
- Reception of event informations (EIT) via DVB SI data and provisioning of this data as OMA BCAST compliant ESG content fragments via SG2 interface.

SDIRX FEATURES

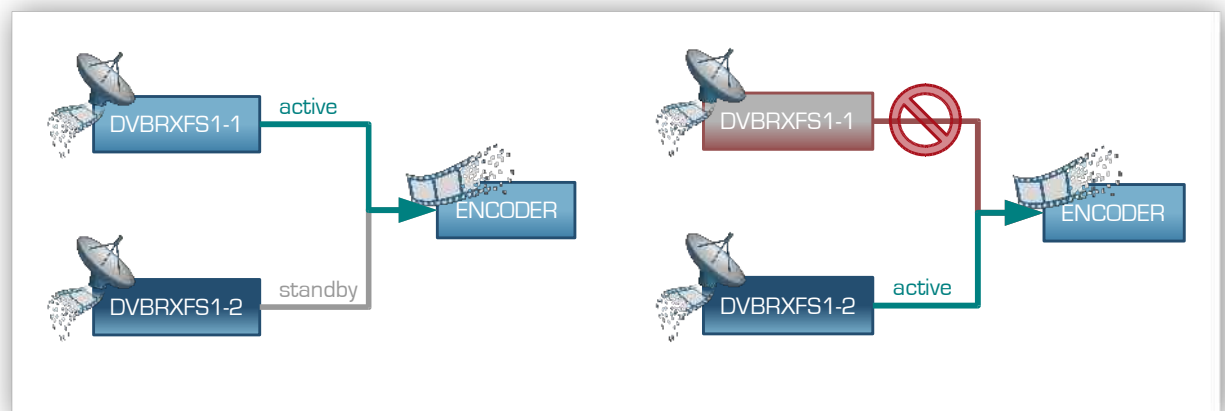
Beside the main features, the SDIRX Network Receiver includes the enhanced functionalities:

- Reception of digital uncompressed video (SDI) and embedded audio via installed reception cards
- Currently supported: PAL (SDI), High Definition (HD-SDI, available on request), AES/EBU embedded audio
- MPEG-2 video and MPEG Layer II audio encoding (up to 4 services)

AVRX FEATURES

Beside the main features, the AVRX Network Receiver contains the enhanced functionality:

- Reception of analogue uncompressed video (S-Video, Composite) and digital audio (AES/EBU) via installed reception cards
- Currently supported: PAL (Composite, S-Video), AES/EBU (digital audio)
- MPEG-2 video and MPEG Layer II audio encoding (Up to 4 services)





GMIT PRODUCTS

GMIT products provide highest service availability and are ready to run 24x7, proved in several commercial deployments. They are based on software-only components, which allow the use of regular PC-based server hardware. Even one server can host more than one GMIT product.

Due to its highly flexible software architecture and design, all GMIT products can easily be adapted. Customers are therefore flexible for future enhancements and upcoming standards and well prepared for individual integrations and customizations. This helps to reduce time-to-market and provides advantages compared to other vendors.



TECHNICAL SPECIFICATION

Input

NETWORK RECEIVER DVBRX

- Various amount of MPEG transport streams (MPTS) with up to 200 Mbit/sec per stream – depending on amount of installed reception cards
- DVB compliant SI informations for automatic OMA BCAS ESG content fragment generation

NETWORK RECEIVER SDIRX

- Up to four independent SDI Signals containing digital PAL Video - depending on amount of installed reception cards
- Additional embedded digital audio (AES EBU compliant)

NETWORK RECEIVER AVRX

- Up to four independent composite (FBAS) or S-Video signals containing analogue PAL video, depending on amount of installed reception cards
- Additional analogue or digital Audio (AES EBU compliant)

Output

TRANSPORT LAYER

- IP version 4 unicast or multicast
- UDP (RFC 768 compliant)

SERVICE LAYER

- MPEG single/multiple program transport stream (ISO/IEC 13818-1 compliant)

Additional Functionality

DESCRAMBLING (DVBRX)

- Interface: DVB Common Interface (DVB-CI) depending on installed reception cards
- CAM: Alphacrypt (Multicrypt CAM)

ENCODING (SDIRX, AVRX)

- Video encoding of uncompressed source material using MPEG-2 video codec (ISO/IEC 13818-2 compliant)
- Audio encoding of uncompressed source material using MPEG-1 Audio Layer II codec (ISO/IEC 11723-3 compliant)

REDUNDANCY

- Built-in clustered service redundancy for seamless failover in multicast environments (requires 2 x Network Receiver)

Administration and Monitoring

LOCAL

- Control: Console-based UI

REMOTE

- Control: Web-based UI and SNMPv2 Control
- Monitoring: Web-based UI and SNMPv2

Hardware and System Requirements

HARDWARE REQUIREMENTS

- CPU: 1x INTEL XEON Quadcore
- RAM: 2 GByte
- USB: Port for license key (alternative network connection to dedicated license server)
- Reception Cards with available inux support (recommendations can be provided)

OPERATING SYSTEM

- Ubuntu Linux LTS 8.04 (Hardy) 32 bit server edition

SUPPORT

- Internet connection (FTP) necessary for easy installation (alternative installation possible)
- SSH connection necessary for additional GMIT support

Contact

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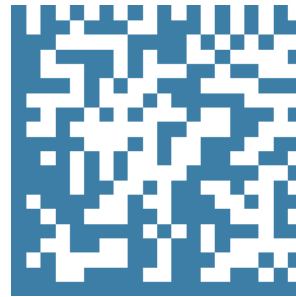
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GMIT is a component supplier providing headend technology and interactivity for digital and mobile broadcast. Our software products for stationary and mobile TV are optimized to satisfy the essential needs for reliability, economy and flexibility.