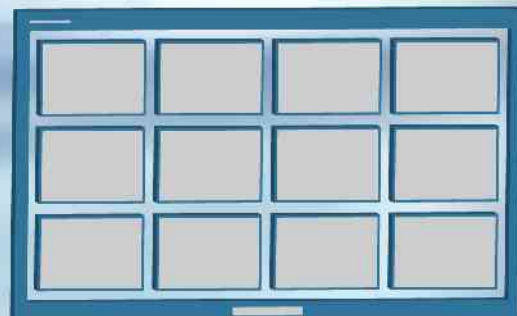


# BMM Mosaic



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## BMM MOSAIC

The GMIT Broadcast Multiscreen Monitor (BMM) Mosaic is a server-based solution for setting up appealing split screen applications. Composite up to 16 compressed digital TV-channels to one single screen and get an overview on all your attracting TV-channels. Transmit the complete BMM Mosaic Screen as separate TV Service via your platform or utilize the BMM Mosaic as digital signage or point-of-interest application.

Based on its dynamic screen layout capabilities and the free tile arrangement, the BMM Mosaic is the perfect and eye-catching solution for attracting new customers or adding additional value to your platform. Even having a closer look at just one of the displayed services is easy: Smoothly zoom in on the selected tile shows the TV-channel in full-screen mode and native resolution. Use the automatic round robin functionality and periodically switch to all services one after another or manually pick any desired TV-channel by a single mouse click.

Enrich your split screen with additional advertisements, company brands or any other kind of local content: Adding of pre-recorded clips or still images is easy and allows to set up even more attractive split screens. Or add an additional audio track to deliver your advertising slogans or arbitrary other messages. Screen size and your imaginations are the only limits.

## PRODUCT FEATURES

The GMIT BMM Mosaic is a highly flexible and state-of-the-art server-based multiscreen solution. Use all its ground-breaking features and impress your customer with the big variety of TV-channels available on your platform:

- Display up to 16 TV-channels on a single screen.
- Stream reception via IP Multicast, IP Unicast or optional broadcast interfaces (ASI, DVB-S, ...)
- Split screen output via available video interfaces (VGA, DVI) or as fully DVB-compliant video service (using MPEG transport stream protocol)
- Exceeding image quality produced by advanced scaling, and decoding algorithms
- Free configurable BMM Mosaic screen: position, size and amount of tiles can be defined by user
- Easy web-based configuration and arrangement using drag & drop functionality



- service name insertion and overlay
- Additional Audio-track pass-through and local playback functionality



## BUSINESS BENEFITS

Using the GMIT BMM Mosaic provides many advantages, approved by many customers using the GMIT BMM products in several commercial deployments, marketing trials or customer presentations.

- BMM Mosaic is cost effective: Due to its flexible pricing and licensing model, any customer just needs to acquire the amount of tiles and input formats he actually needs. Upgrading is easy if the system will be enlarged and more tiles are needed.
- BMM Mosaic is flexible: Display a variety of input signals combined with local content and an additional audio track. Use any available display port for local presentation or even transmit the complete screen via your platform using the fully DVB compliant streaming output
- BMM Mosaic is reliable: Intended for usage in broadcast environments and based on long term supported Linux OS, the BMM Mosaic is validated for unattended 24x7 usage and completely future-proofed.

Due to its highly flexible software architecture and design, the GMIT BMM Mosaic can easily be adapted. Customers are therefore flexible for future enhancements and upcoming standards and well prepared for individual integrations and customizations. This reduces time-to-market and provides competitive advantages.



## TECHNICAL SPECIFICATION

### Input

#### INPUT PROTOCOLS

- MPEG-2 Transport Stream (ISO 13818-1) over IPv4/UPD or optional DVB/ASI Interfaces - depending on amount of installed reception cards
- RTP over IPv4/UPD (IETF RFC 3550)

#### INPUT SOURCES

- Ethernet Network Interface
- Recorded Transport Stream File

#### OPTIONAL SUPPORTED RECEPTION CARDS

- DVB (T/S/C) RF Interfaces
- ASI Transport Stream Interfaces

### Supported Codecs

#### VIDEO

- DVB T/S/C compliant MPEG-2 Video (Main Profile, SD-resolution)
- DVB-H compliant H.264 Video (Baseline Profile, QVGA resolution)

#### AUDIO

- DVB T/S/C compliant MPEG-1@L2 Audio
- DVB-H compliant HE AAC Audio,

#### VISUALISATION

- Visualisation of encrypted DVB-H streams

### Output

#### LOCAL OUTPUT

- Split screen output via VGA/DVI Output

#### STREAMING OUTPUT

- Split screen output via encoded Video as MPEG TS over IP
- Split screen output as JPEG still screens

### 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

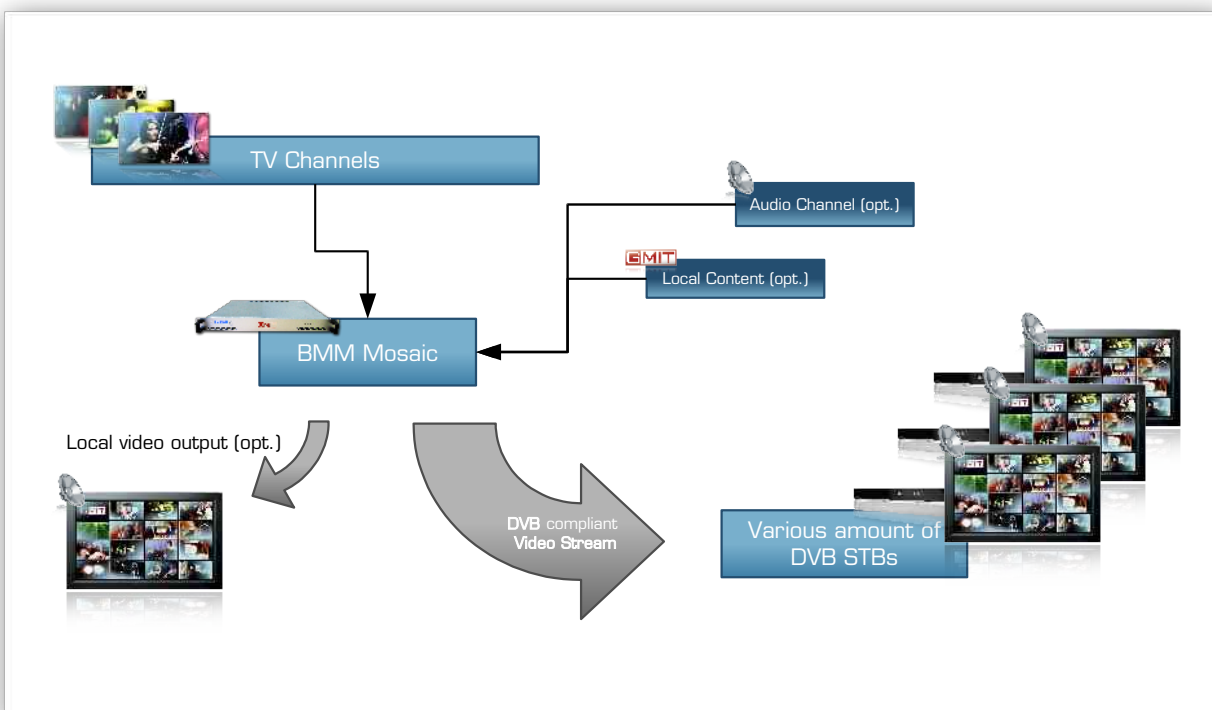
- CPU: min. 1x INTEL XEON Quadcore (depending on tile count)
- RAM: 4 GByte
- USB: Port for license key (alternative network connection to dedicated license server)
- Graphic card with available Linux and OpenGL support (recommendations can be provided)

#### 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

### GMIT GMBH

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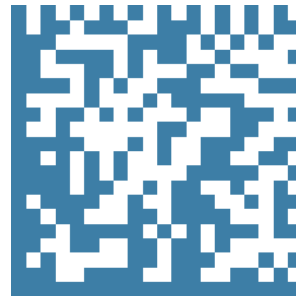
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E-MAIL: [info@gmit-gmbh.de](mailto:info@gmit-gmbh.de)

### GET MORE INFORMATION



### MORE GMIT PRODUCTS



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.