

# UDC-3455

3G-SDI Optical AES Analog Audio SRM Module

## Samim UDC-3455; The Frame and the User Interface

To put UDC-3455 into operation, it is placed into Samim dedicated Frames which are exclusively designed for providing required power, cooling, controlling and monitoring the installed modules.

Samim Frames are high reliable as they benefit from “two” redundant 225W power supplies which ensures the operation continuity.

In addition, by a powerful and friendly web-based interface, users are able to track the overall state of UDC module in real-time.

They can also monitor, control, upgrade the firmware, configure the settings, view and export logs, check alarms, perform access controls, ... both for UDC-3455 and for the Frame.



Through the web-based user interfaces of all Samim modular products, operators can easily perform controlling and monitoring tasks in real-time.

## ■ 3G / HD / SD - SDI Up / Down / Cross Converter

with Audio Embedder and De-embedder



[www.samimgroup.com](http://www.samimgroup.com)





## Samim UDC-3455

3G / HD / SD - SDI UP / Down / Cross Converter

UDC-3455 is a broadcast quality modular up/down/cross converter that can convert video format between 3G, HD, and SD standard. Frame synchronization (with video timing adjustments), color correction, image enhancement, and aspect ratio conversion (with AFD) are supported in the video processing path.

The module contains an audio crosspoint, giving the user great flexibility in selecting the source of embedded audio pairs and audio outputs. Advanced audio processing, including delay, gain, and L/R swap, can be applied to the audio sources from de-embedded audio

and external AES and analog inputs.

Video pattern and audio tone generation can help users test the chain without a valid source. The module also can compensate for an input loss with black, freeze, or pattern on the output.

Support of common ancillary standards and an option to use fiber I/O via an SFP module, besides mentioned features, make UDC-3455 an excellent option for most signal chains. Control and monitoring can be done using the web-based user interface, frame front panel, and SNMP protocol.

### Samim UDC-3455 can be utilized in :

Video Production  
Studios

OB Vans or  
Portable Studios

Radio / TV Transmitter  
Stations

Production Control  
Room

## Key Features

- Aspect Ratio Conversion respect to AFD metadata and AFD generation
- Advanced video de-interlacing
- Frame synchronizer with tri-level or bi-level reference input
- Horizontal/Vertical timing adjustment respect to reference input
- Auto freeze, black, last frame, or pattern on input video loss
- Video processor: Noise removal, edge enhancer, and brightness, contrast, hue, saturation control
- Optical I/O via an SFP
- Audio processor (16 pairs): Any to any input/output pair routing, gain control on each channel, Invert and mute control on each channel, swap left/right audio of each pair, silence/overload detection
- Audio delayer (16 pairs): Up to 10 seconds for each embedded pair (1ms steps)
- Four group audio embedding and de-embedding
- Up to x4 AES inputs and x4 AES outputs
- Up to x4 analog mono audio inputs and x4 analog mono audio outputs
- Internal pattern and test tone generator

## Key Benefits

- High quality 3G/HD/SD up/down/cross converter
- Flexible usability in selecting embeddable and de-embedable audio sources
- Advanced audio and video processing
- compensations for input loss with black, freeze, or pattern on the output
- Firmware Remote Upgrade via web UI
- Easy configuration via web-based user interface, SNMP protocol and front control panel
- Professional support plus technical services included

