

## HD/SD Frame Sync Processing Embedded Audio and Dolby®E

**FS081** HD/SD Frame Sync with Embedded Audio Processing and Dolby® Decoding Option.

The FS081 has tracking embedded audio delay, and glitch free handling of embedded audio when a frame is dropped or duplicated. It also includes a digital proc and audio gain, mapping, and test tone generator.

**FS082** HD/SD Frame Sync.

The FS082 is a video-only HD/SD Frame Sync which passes the entire ancillary data interval, including embedded audio. The FS082 does not have the glitch free audio handling of the FS081/FS083, so there may be noticeable audio glitches when processing asynchronous inputs.

**FS083** HD/SD Frame Sync with Audio Embedding / De-Embedding and Dolby® Decoding Option.

The FS083 includes all of the features of the FS081 Frame Sync with added audio embedding and de-embedding.

Up to 16 channels of AES audio, and up to 8 channels of analogue audio can be embedded glitch free with the frame sync enabled. Up to 16 channels of audio can be de-embedded to AES outputs.

## Features

- Frame Sync with tracking audio delay
- Audio channel mapping and level control
- Video level controls
- 24-bit Embedded audio processing
- Dolby® Decoder option with meta-data output
- User offset to frame sync to align Dolby® E delay
- Local or remote user configuration and processing controls
- Glitch Free handling of embedded audio when a frame is dropped or duplicated
- Audio tone generator
- Remote control/monitoring via DashBoard software or CP-900 remote control panel
- Five year warranty

## Specifications

### HD/SD-SDI Input

SMPTE 292-C and 259M-C

### Digital Output

Two HD/SD-SDI with EDH

### D. Return Loss

> 16 dB

### Output Jitter

Output jitter to <0.2 UI measured with colour bar input

### Proc. Control

Digital control of gain, DC, saturation & hue and audio levels, mapping and CH inversion presets

### SRC

16-CH 142 dB S/N

### Audio Conv/Proc.

24-bit in all modes

### A/D Freq Resp.

20-20KHz +/- 0.1 dB

### Level Control

Mute to +100 dB

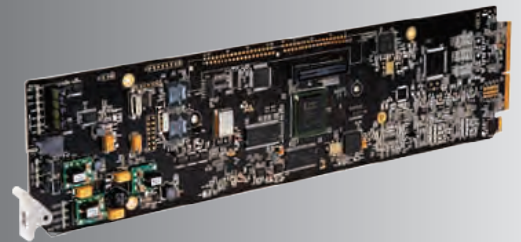
### Power

6 watts

### Size

12.9" x 3" (330mm x 76mm)

For use in openGear™ frames



# Chromatec

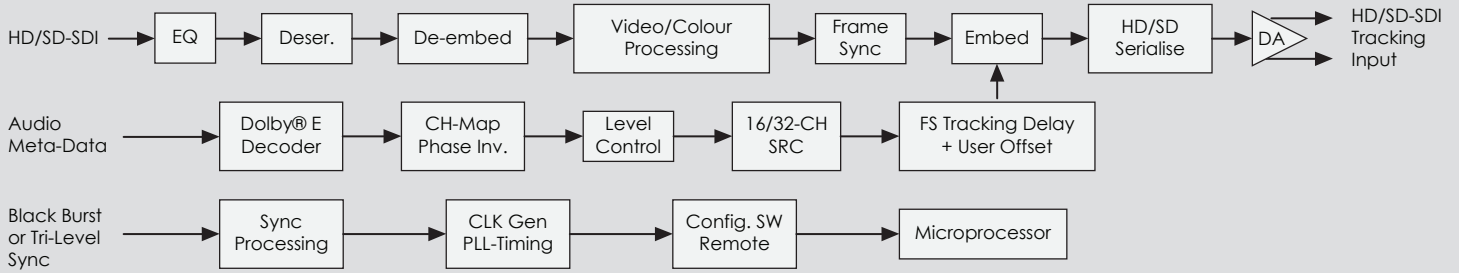
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FS081 Frame Sync with Video and Audio Level Processing Block Diagram



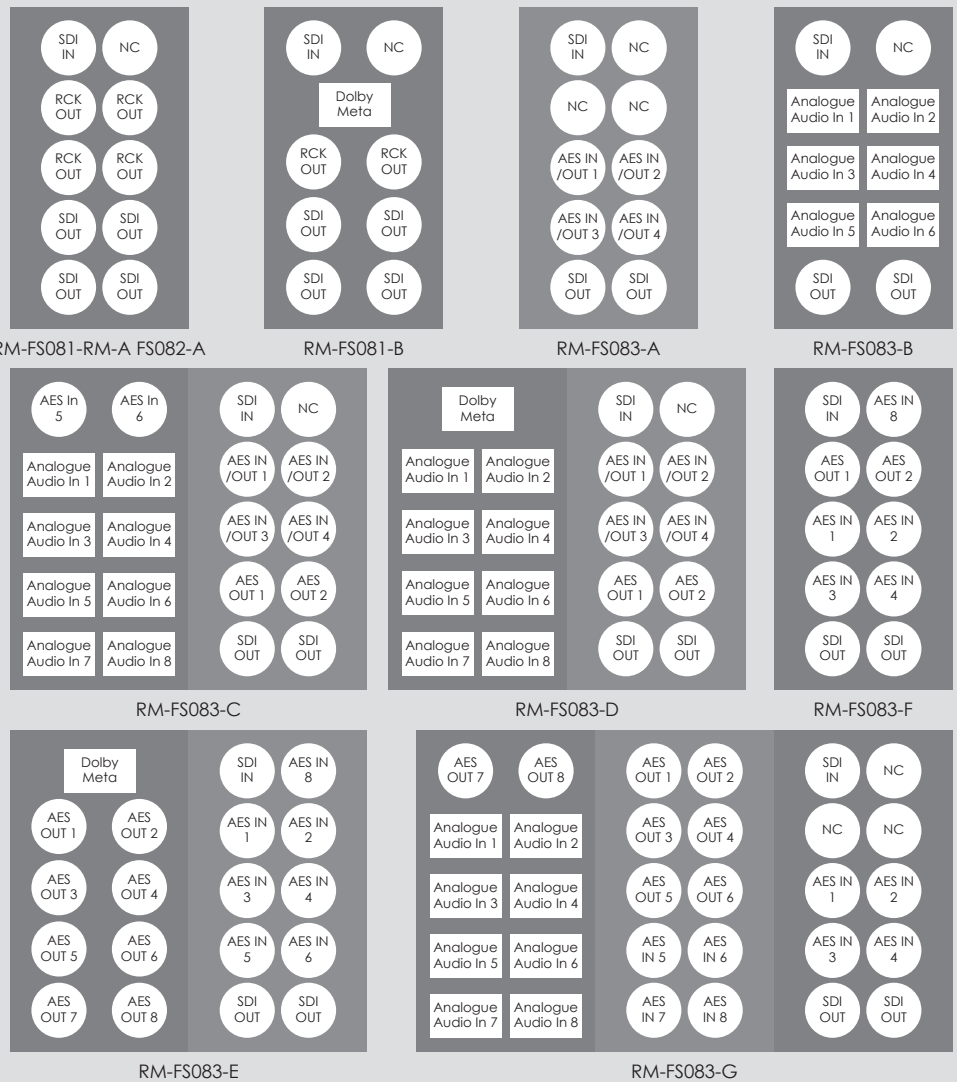
05/08 Features and specifications subject to change without notice

## Product Selection Guide

	FS081	FS082	FS083
HD/SD-SDI Inputs	1	1	1
HD/SD-SDI Processed Outputs	4	4	2
HD/SD-SDI Input Copies	4	4	2
Analogue Audio Conversion			•
AES Embedding			•
AES De-Embedding			•
Embedded Audio Support	•		•
Frame Synchronisation	•	•	•
Dolby® Decoding Option	•		•
Remote Control	•	•	•
Status Monitoring	•	•	•

## Rear Modules Available

## RM-FS081 Family Rear Module



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