

## D\*AP8 CODEC EDITION - 8 Channel Surround CODEC Processor Edition

Developed in close cooperation with Dolby® Labs, the D\*AP8 CODEC EDITION is designed to replace a wide range of legacy Dolby® processors wherever there is a requirement for decoding, encoding or transcoding of audio signals. Multiple audio I/O formats are supported including native AES along with optional 3G SDI, MADI, Dante™ and analog.



Designed to be used in all areas of audio broadcast and distribution, Jünger Audio's D\*AP8 CODEC EDITION offers the functionality to decode and/or encode any current Dolby® audio bitstream and to effectively manage and emulate all metadata parameters.

### Overview

The D\*AP8 CODEC EDITION has eight channels of audio I/O (4x 2.0 or 5.1+2.0) and built in Dolby® decoding with metadata management and emulation as standard. Optional Dolby® encoding is also available. Network-based loudness metering and Voice Over are standard whilst Logging, Upmix and Fail Over are optional.

### Dolby® Decoding

The Dolby® decoder supplied with the D\*AP8 CODEC EDITION provides decoding of the following Dolby® formats:

- Dolby® E
- Dolby® Digital Plus (incl. AD)
- Dolby® Digital
- Pro Logic II (decode and encode)

### Dolby® Encoding

Optional Dolby® Encoders are available to provide:

- Dolby® E
- Dolby® Digital Plus (incl. AD)
- Dolby® Digital
- AAC, HE-AAC v1/2

### Metadata Management and Emulation

Comprehensive metadata management and emulation are standard features. The setting of metadata parameters such as Dialnorm, Downmix and DRC are critical to ensure correct performance of the end user's decoder. The emulation function enables values to be verified or adjusted in real time to be certain that the end user's audio is reproduced correctly and appropriately for their listening environment.

### Loudness Metering and Logging

To ensure compliance with local regulations, loudness and true peak levels can be measured and transferred via Ethernet to the optional J\*AM measurement and logging software. All current loudness standards are supported including ITU-R BS.1770 (1 to 4) and recommended practices ATSC A/85, ARIB TR-B32, Free TV OP-59, Portaria 354 and EBU R128.

A real-time plot of input levels can be displayed and logged to a destination folder anywhere on the network.

### Upmix/Fail Over/Voice Over/Limiting

Voice over functionality is provided allowing for seamless integration of voice and program content with automatic ducking or mixing. Optional features offered through software licenses are Upmix to create 5.1 surround from native stereo audio, and Fail Over to facilitate automatic switching to a backup signal feed or bitstream should the primary feed be lost. True peak limiting is included as a standard feature.

### Control and Configuration

A web browser interface allows easy and intuitive setup and configuration of all the unit's parameters from anywhere on your network, whilst a variety of onscreen metering and measurements are available for easy reference. A dedicated "mobile" UI is tailored specifically for touch screens or smaller displays such as tablets and smartphones.

The optional X\*AP RM1 Remote Panel provides access to relevant parameters and programmable hotkeys, along with metering and measurement displays.

### System Integration

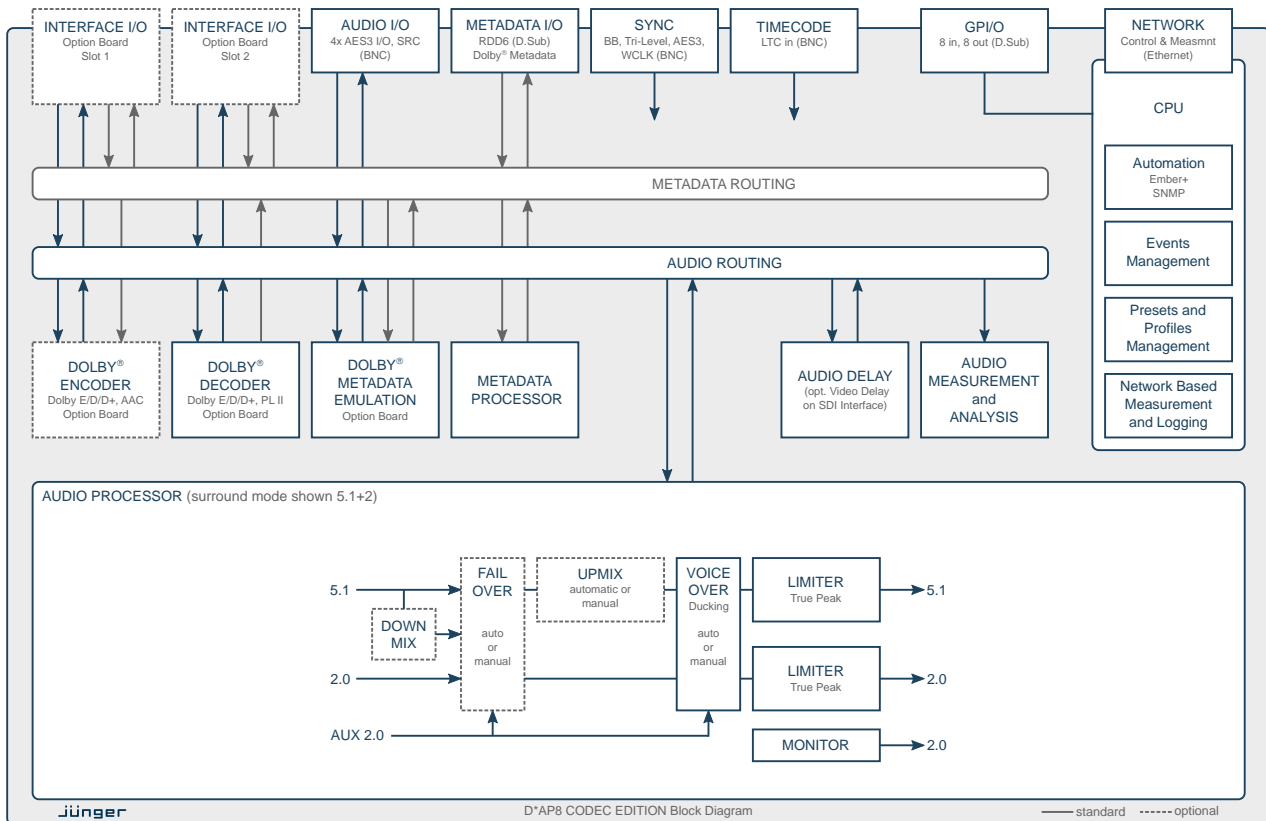
For integration into an automated broadcast environment, all parameters are remotely accessible allowing the unit to be operated by external control systems and software. An advanced built-in Event Management tool allows the remote loading of parameter presets and settings either by hotkeys on the optional X\*AP RM1 remote panel, by 8 onboard GPI/O's or by network commands using the Ember+™ control protocol.

### Interfaces and System Security

Audio I/O's range from onboard AES3 to optional 3G SDI including video delay, MADI, Dante™ audio over IP and analog. With power fail bypass relays, dual redundant PSU's and SNMP integration, the unit ensures maximum operational safety and peace of mind for today's critical 24/7 broadcast or content delivery facilities.



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## Key Features

- Multi channel / Multi format audio processing
- Standard audio decoding: Dolby® Digital Plus, Dolby® Digital, Dolby® E, Pro Logic II
- Dolby® Metadata generation, management and emulation
- Optional audio encoding: Dolby® Digital Plus, Dolby® Digital, Dolby® E, AAC, HE-AAC v1/2
- Dolby® Dialog Intelligence™
- True peak limiting
- Downmix functionality (incl. Pro Logic II)
- Voice Over functionality
- Optional Upmix and Fail Over functionality
- Loudness measurement supporting all worldwide standards
- Optional loudness logging software (J\*AM)
- On board interfaces: 4x AES/EBU I/O, Sync in, Sync out, Metadata I/O, 8 GPI/O
- I/O modularity via 2 interface slots (e.g. SDI, AES/EBU, Analog, MADI, Audio-over-IP DANTE™)
- Ethernet connectivity for setup and control via web browser
- External control via network or GPI/O's
- Power fail bypass relays; 19", 1RU device, redundant power supplies

## Versions and Options

- D\*AP8 CODEC EDITION: D\*AP8 base unit plus CODEC feature set
- X\*AP RM1: hardware remote control linked via Ethernet



- Option Board 16ch SDI I/O (3G/HD/SD)
- Option Board 4ch analog I/O
- Option Board 8ch analog Out
- Option Board 8ch AES/EBU I/O
- Option Board 16ch Dante™ Audio over IP
- Option Board 16ch MADI I/O
- Option Board Dolby® D / D+ / AAC / HE-AAC encoder
- Option Board Dolby® E encoder
- License Fail Over and Automatic Upmix

