

D*AP4 LM BASIC - 4 Channel Level Magic™ Audio Processor

With 4 processing channels, 3G SDI and optional logging features, the D*AP4 LM BASIC is the ideal solution for automatic and intelligent loudness management in real-time stereo environments. Level Magic™ ensures maximum audio quality whilst maintaining compliance with all worldwide loudness standards.



The D*AP4 LM BASIC audio processor provides automatic and adaptive loudness management compliant with all current broadcast audio loudness recommendations including ITU-R BS.1770 standards as well as recommended practices ATSC A/85, ARIB TR-B32, Free TV OP-59, Portaria 354 and EBU R128.

Overview

The D*AP4 LM BASIC audio processor features loudness control plus dynamic range processing and true peak limiting for up to four channels of audio (2x 2.0).

Level Magic™ and Dynamic Range Control

Based on a unique multi-loop control principle, the Level Magic™ algorithm provides adaptive wideband loudness control with exceptionally high audio quality that is free of coloration, pumping, distortion or modulation effects. Level Magic™ is designed to be audibly transparent and due to its highly adaptive nature, requires only a small number of parameters to be input during initial setup. The adaptive dynamic section includes an expander/gate and upward compressor.

Loudness Measurement and Logging

For compliance with local regulations, loudness and true peak levels can be measured by the optional J*AM software. SNMP or GPIO alarms can also be triggered if pre-set limits are exceeded. A real-time plot of input vs output levels can be displayed and the results logged to a destination folder anywhere on the network. A log file analyzer rebuilds the original plot for easy readout of historical data.

Fail Over

Fail Over permits automatic switching to a backup signal should the primary feed be lost.

Web Configuration

A web interface allows easy and intuitive setup and configuration from anywhere in your network. Onscreen metering and measurements are available for easy reference and a dedicated "mobile" UI is tailored specifically for touch screens or smaller displays such as tablets and smartphones.

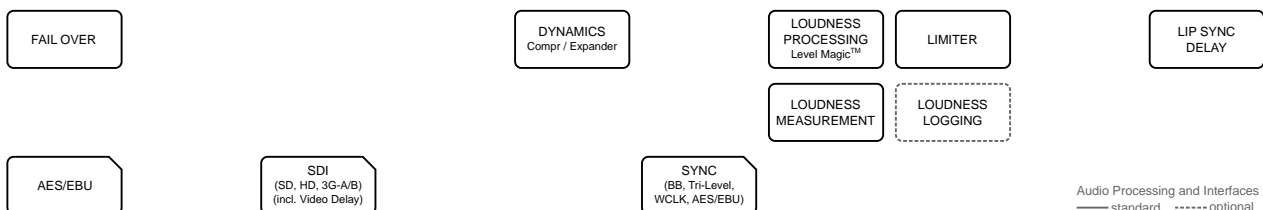
System Integration

All system parameters are remotely accessible allowing the unit to be integrated and operated by broadcast control systems. An advanced built-in Event Management tool allows the loading of parameter presets either by hotkeys on the optional X*AP RM1 remote panel, by 8 onboard GPIO's or by network commands using the Ember+™ control protocol. This helps users to apply individual processing to their programs or content and thereby ensure maximum audio performance in all situations.

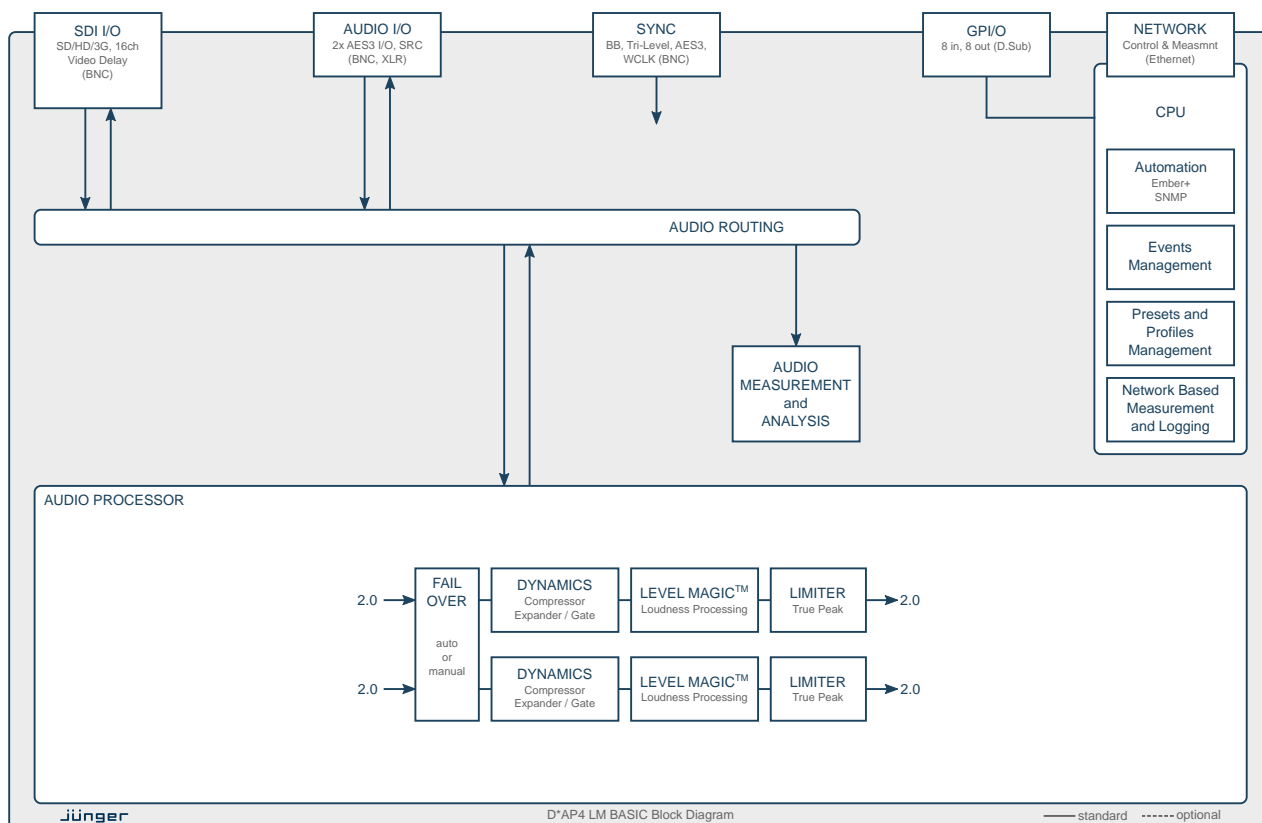
Interfaces and System Security

Standard AES3 and SD/HD/3G SDI interfaces (incl. video delay) allow an easy integration into existing installations.

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

- Level Magic™ loudness management according to: ITU-R BS.1770 (all revisions), EBU R128, ATSC A/85, ARIB TR-B32, Free TV OP-59 and Portaria 354
- Loudness measurement supporting all worldwide standards
- Dynamics with compressor and expander/gate
- Fail Over with signal loss detection
- 16ch SDI I/O (3G/HD/SD) audio embedder and de-embedder
- 4ch AES/EBU I/O interface
- Optional loudness logging software (J*AM)
- 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 PSU

Versions and Options

- **D*AP4 LM BASIC:** D*AP4 base unit, basic LM feature set
- **X*AP RM1:** hardware remote control linked via Ethernet

