

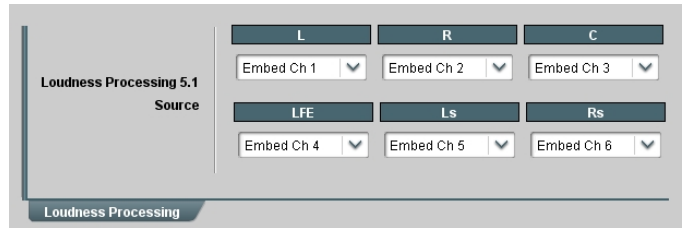
Fusion3G[®] +LP Loudness Processing Software Options



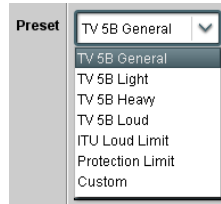
Fusion3G[®] offers software-option loudness processing that is easy to integrate and use. Option-based loudness processing solutions free you from the added space consumption and complexity of standalone equipment. Loudness processing can be combined with other audio option upgrades. When uploaded to full-function cards, a single card can provide, for example, format conversion, frame sync, audio embed/de-embed, and Dolby[®] encode/decode as well as loudness processing.

Loudness processing can be applied to any audio source supported by the card. Loudness processing options are available on any new Fusion3G[®] card, or as an easy-to-install field upgrade using a license key upload to the card via DashBoard™ remote control. (9985 comes standard with loudness processing.)

- AEROMAX[®] loudness processing by Linear Acoustic[®] provides audio free from abrupt loudness or image shifts with more of the original content preserved than previously possible.
- Economical, space-saving loudness processing solution.
- Loudness is processed locally and in sync with video without the accumulated latency delay found in other loudness processors.
- When used with Loudness Metering option +LM (which can be supported by the same card equipped with loudness processing), provides full loudness processing/monitoring suite.



Simple GUI controls allow selected channels to be routed to Loudness Processing. The loudness-processed channels are then similarly routed to selected destinations.



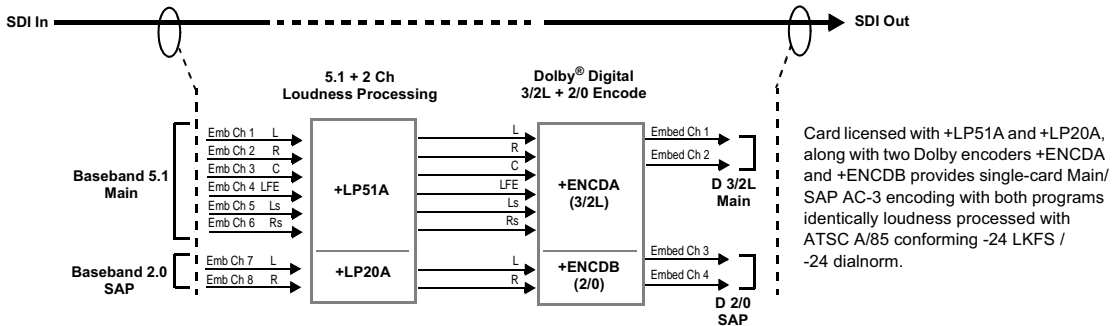
No-hassle processing profile presets take the guesswork out of loudness processing. Default "TV 5B General" setting provides ATSC A/85 loudness processing with a -24 LKFS target ideal for use with -24 dialnorm ATSC AC-3 encoding. Custom Preset opens a GUI dialog allowing detailed manipulation of various parameters that comprise the overall profile to allow "tweaking" of loudness processing attributes to suit any preference.

Loudness processor licensed feature uses AEROMAX[®] algorithms provided under license from Linear Acoustic Inc. Linear Acoustic, the "LA" symbol, UPMAX, AutoMAX, AutoMAX-II, and AEROMAX are registered trademarks of Linear Acoustic Inc. All Rights Reserved.



When +LM Loudness Metering option is added along with +LP loudness processing options, a single-card full ATSC A/85 – ITU BS.1770 loudness processing/monitoring/logging suite is available. (Loudness metering requires +LM license for card, Remote Control Panel OGCP-9000 or PC-based WinOGCP, and a +LM license for the control panel. Please see +LM Loudness Metering Option for details.)

Same-Card Main/SAP Loudness Processing and Dual AC-3 Encode



+LP options for Fusion3G[®] are available in the following combinations (some also including upmixing):

- +LP51A, +LP51B – Two independent 5.1-channel loudness processors
- +LP20A, +LP20B, +LP20C, +LP20D – Four independent 2.0-channel loudness processors
- +LP20A, +LP20B, +UMA, +UMB – Two 2.0-channel loudness processors; two upmixers
- +LP51A, +LP20A, +UMA – 5.1-channel loudness processor, aux stereo (SAP) loudness processor, one upmixer