RADIO AND STREAMING AUDIO PROCESSOR
SoftGear’s Radio and Streaming Audio Processor takes your audio to the next level

Introducing your cost-effective radio and streaming audio processor for IP / AES67 networks. Powered by legendary Orban® OptiCloud™ processing within the softGear™ architecture, the Radio and Streaming Audio Processor offers an unmatched set of algorithms for automatic and manual audio processing of FM, HD and streaming applications. Choose from 50 defined pre-sets or create your own custom pre-sets to ensure a smooth and consistent way to modify your audio requirements as needed.

The Radio and Streaming Audio Processor offers a secondary processing engine for HD radios and IP streaming applications. Multiple meters and controls provide a visual representation of all processes and offer a quick way to identify and remedy any imperfections in your audio path. As a result, you can quickly influence and adjust the behaviour of your programming by applying different pre-sets or by modifying components of each processing engine.

BASED ON SOFTGEAR™
Modern OS-level virtualization technology allows easy scaling, migration and redundancy, giving you the ultimate flexibility in solution deployment on-premise, or in the private cloud.

MX LIMITER
Proprietary MX limiter technology lowers distortion, improves transient punch, and minimizes FM analog pre-emphasis-induced high-frequency loss.

MULTI-BAND PROCESSING
The linked two-band and five-band compressor and limiter followed by a proprietary loudness controller provide comprehensive spectral balance control while maximizing loudness and minimizing distortion.
**RADIO AND STREAMING AUDIO PROCESSOR - SPECIFICATIONS**

- High-density design – Up to 8 concurrent workflows
  - Up to 8 input and output AES-67 streams
  - ST 2022-7 seamless protection switching
- Audio Processing
  - Eight instances of FM and/or HD, Streaming processor
  - FM: 50uSec or 75uSec Pre-emphasis
  - High Performance MX Peak Limiter
  - Two-band, window-gated AGC
  - Dual-Mono AGC
  - Five-band Multiband Compressor/Limiter
  - Look-ahead Compression
  - OPTIMOD Loudness Control
  - BS.1770 Loudness Control
  - Active Phase Correction
  - Stereo Enhancer
  - Bass Shelving EQ
  - Bass Limit Modes
  - Mono Bass w/ Crossover
  - Three-band Parametric EQ
- Brilliance Control
- Stereo Synthesizer
- Adaptive HF Enhancer
- Subharmonic Synthesizer
- Downward Expander Noise Reduction
- 50 Custom pre-sets
- Unlimited number of customer defined pre-sets
- Audio Formats
- Sampling rate of 48kHz and bit-depth of 24-bit.
- Synchronization
  - Alignment with media timeline and broadcaster master clock.
  - Precision Time Protocol (PTP)
- Control
  - Full configuration, setup and monitoring via DashBoard™

**BLOCK DIAGRAM**

Radio and streaming audio processor for IP / AES67 networks based on legendary Orban® processing.

**SOFTWARE**

- SOFTGEAR CORE
- LINUX OS

**HARDWARE**

- AES67 AUDIO
- INTEL I350 ETHERNET
- DELL R340 SERVER

**ORDERING INFORMATION**

SG-RSAP-PKG

The Radio and Streaming Audio Processor supports up to 8 Orban Radio processing micro-service.