

DPRO6 HD

digital audio processor



DPRO 6 HD is a digital multiband audio processor optimized for DAB+ and HD Radio broadcasting. The audio processing chain comprises a two bands AGC which feeds the six bands limiter-compressor, followed by a final clipper-limiter operating at 96KHz, optimized for distortion masking, thus obtaining a cleaner and clipping artifacts free sound.

The audio processing are realized through DSPs, allowing a stable operation over time and the possibility to implement new functions through software updates.

The loudness limiter can equalize the perceived loudness among different audio program sources such as live shows, commercials, films, music videos. It operates according to the ITU-R BS.1770 standard.

Two types of IP audio module are available as an option, the decoder for the reproduction of IP audio streams or the Encoder for encoding the output stream of your processed signal.

All outputs will be bypassed to their respective inputs in case of malfunction.

Technical features:

- **Analog audio input**
Sampling frequency 48KHz/24bits
Input level +12/-12dBu, XLR connectors electronically balanced
- **Digital audio input**
accepts AES/EBU and SPDIF sample rates from 32 to 96KHz
XLR connector with balanced transformer.
- **IP Audio input (optional)**
decoding format AAC+, MP3, Ogg Vorbis, G.711, PCM
Streaming Shoutcast/Icecast ip via TCP, UDP, RTP, Multicast
USB port for audio backup on external storage
- **Digital audio output**
AES/EBU 48KHz, with balanced transformer
- **IP Audio output (optional)**
Streaming IP encoding via TCP, UDP, RTP, Multicast protocol
Shoutcast/Icecast feature, MP3, PCM, G.711 encoding format
- **Headphones output**
1/4" front panel jack
Output: 100mW RMS over 50 ohm
- **Latency**
Audio processor 8mS
- **Loudness control ITU-R BS.1770 standard**
- **Remote control**
All functions can be managed remotely with an included software.
- **Interfaces**
RS-232, Ethernet UDP card
Ethernet streaming card (optional)
- **Power supply**
100-240VAC 50/60Hz, consumption 10VA
- **Physical**
1 x 19" rack unit
44mm x 483mm x 156mm
Weight 2,5 Kg