

FM 3 BAND AUDIO PROCESSOR



TECHNICAL SPECIFICATIONS	
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
SCA input	BNC connector
Analog audio output	Output level +12/-12dBu Deemphasis Off, 50uS, 75uS XLR connectors, electronically balanced
MPX output	Output level +6/-6dBu Stereo crosstalk > 66dB BNC connector Pilot reference output 19KHz, 1Vpp square wave
Latency	Audio processor 8mS Stereo coder 4mS
RDS Encoder	PI, TP, TA, DI, PS, RT, RT+, CT, AF-A, AF-B, PTY Carrier lever electronically adjustable from 0 to 6KHz, in 100Hz steps Radiotext+, CT and dynamic PS are managed by included software (MS Windows XP, W7)
Remote control	All functions can be managed remotely with an included software. Interfaces: RS-232 (standard on all models) Ethernet streaming card (optional) Ethernet standard card (optional)
Power supply	100-240VAC 50/60Hz 12VDC on request
Physical dimensions	1 x 19" rack unit 44mm x 483mm x 156mm Weight 1Kg

FM broadcast **audio processor** with integrated **MPX and RDS encoder**. The processing chain comprises a wide band AGC which feeds the 3 bands **audio processor**. **Audio processing** and **RDS/MPX encoders** are realized by DSP, allowing a stable operation over time and the possibility to implement new functions through software updates. An optional ethernet streaming card allows to **play MP3 / AAC+ streams** and files, thus forming a complete stream to MPX + RDS receiver for use as a **spare audio source** or network STL. In this case, the audio signal coming from network will be directly processed by the DSP and converted to analog only at MPX output, thus realizing an entirely digital processing chain.