



## PROCESSORS



## ▶ Vibe 3 FM

3 Bands FM Audio Processor with MPX and RDS encoder



## ▶ Vibe 6 FM

6 Bands FM Audio Processor with MPX and RDS encoder

Vibe FM gives the radio a good On Air presence, combined with a natural and clear sound. The audio processing and RDS/MPX encoders are implemented by DSP. The processing chain includes a two band AGC which is provided to the 6 bands audio processor.

The 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.

The Ethernet Streaming Card (optional) allows to have MP3/AAC+ streams as an alternative source, thus forming a complete stream to the Vibe Processor Unit. In this case, the audio signal coming from the network will be directly processed by the DSP and converted to analog only at MPX output, thus realizing an entirely digital processing chain.

## TECHNICAL FEATURES

- XLR Analog Audio Input, electronically balanced
- XLR Digital Audio Input supporting AES-EBU and SPD IF sample rates from 32 to 6 KHz
- SCA Input
- BNC Connectors for SCA, External RDS interface and MPX Output
- XLR Analog Audio Output, electronically balanced
- XLR Digital Audio Output supporting AES/EBU (optional)
- RDS encoder
- PI, TP, TA, DI, PS, RT, RT+, GT, AF-A, A F-B, PTY
- Remote control, Radiotext+, GT and dynamic PS are managed by included software (Windows XP, 7, 8, 10)
- RS-232 Port
- Ethernet Card
- Ethernet Streaming Receiver Card (optional)
- Power Supply 100-240 VAC - 50/60 HZ

# REAR PANEL



## Connectors on rear panel:

- DIG OUT (XLR M) AES/EBU output (Optional)
- DIG IN (XLR F) AES/EBU input
- LEFT IN (XLR F) left analog input
- RIGHT IN (XLR F) right analog input
- 19K OUT (BNC F) 19KHz output for external RDS encoder synchronization. (1Vpp trapezoidal wave)
- MPX OUT (BNC F) composite MPX output (+6/-6dBm)
- SCA IN (BNC F) external SCA / RDS input (will be mixed to MPX output with a gain of -20dB)
- LEFT OUT (XLR M) left channel analog output
- RIGHT OUT (XLR M) right channel analog output
- RS232 (DSUB 9F) RS232 connector
- USB DRIVE (USB-A) USB connector for fallback audio on external drive (option)
- LAN (RJ45) LAN connector (Optional Streaming Receiver Card available)

## ▶ Vibe 6 TV

6 Bands TV Audio Processor optimized for Television Broadcasting



Vibe 6 TV Digital Audio Processor is a Multi-Band Audio/Video processor with SDI interface, Automatic Bypass and Loudness Control.

Vibe 6 TV can be used for Live, Webcasting, Postproduction and where an audio adjusting process is required. The processing chain (from SDI, Analog L/R, AES/EBU or optional streaming receiver audio input) includes a two-band AGC which is provided to the limiter of the six bands. The final clipper-limiter operates at 96KHz and has been optimized for the distortion reduction, resulting in a clear sound without the common artifacts of digital clipping.

The System can Embed & Process the Audio signal from one of the Audio Input Source to the SDI Output with optional Audio Delay feature.

The audio processing is managed by DSP allowing a stable operation over time and the possibility to implement new functions through software updates.

# TECHNICAL FEATURES

- XLR Analog Audio Input, electronically balanced
- XLR Digital Audio Input supporting AES-EBU and SPD IF sample rates from 32 to 6 KHz
- Loudness Control according to ITU-BS.1770-02
- BNC for SDI Interface: 75 ohm SDI input on BNC / 2 SD outputs on BNC with automatic bypass
- XLR Analog Audio Output, electronically balanced
- Remote control
- RS-232
- Ethernet Card
- Ethernet Streaming Receiver Card (optional)
- Power Supply 100-240 VAC 50/60 Hz

## REAR PANEL



### Connectors on rear panel:

- |                       |   |
|-----------------------|---|
| - DIG OUT (XLR M)     | AES/EBU output  |
| - DIG IN (XLR F)      | AES/EBU input   |
| - LEFT IN (XLR F)     | left analog input   |
| - RIGHT IN (XLR F)    | right analog input  |
| - SDI OUT2 (BNC F)    | sdi auxiliary output, unswitched (TV version only)            |
| - SDI OUT1/SW (BNC F) | sdi main output with bypass switch (option) (TV version only) |
| - SDI IN (BNC F)      | sdi input (TV version only)                                   |
| - LEFT OUT (XLR M)    | left channel analog output                                    |
| - RIGHT OUT (XLR M)   | right channel analog output                                   |
| - RS232 (DSUB 9F)     | RS232 connector   |
| - USB DRIVE (USB-A)   | USB connector for fallback audio on external drive (option)   |
| - LAN (RJ45) LAN      | connector (Optional Streaming Receiver Card available)        |

# ► Vibe 6 DAB+ HD RADIO

6 Bands DAB+ Audio Processor



Vibe 6 DAB+ 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** is 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.

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

## TECHNICAL FEATURES

- XLR Analog Audio Input, electronically balanced
- XLR Digital Audio Input supporting AES-EBU and SPD IF sample rates from 32 to 6 KHz
- SCA Input
- XLR Analog Audio Output, electronically balanced
- XLR Digital Audio Output supporting AES/EBU (optional)
- RDS encoder
- PI, TP, TA, DI, PS, RT, RT+, GT, AF-A, A F-B, PTY
- Remote control, Radiotext+, GT and dynamic PS are managed by included software (Windows XP, 7, 8, 10)
- RS- 232 Port
- Ethernet Card
- Ethernet Streaming Receiver Card (optional)
- Power Supply 100-240 VAC - 50/ 60 HZ

## ▶ Vibe 3 FM



3 Bands FM Audio Processor with MPX and RDS encoder

## ▶ Vibe 6 FM



6 Bands FM Audio Processor with MPX and RDS encoder

## ▶ Vibe 6 DAB+



6 Bands DAB+ Audio Processor

## ▶ Vibe 6 TV



6 Bands TV Audio Processor optimized for Television Broadcasting

