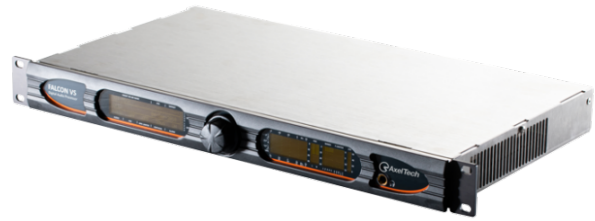


Falcon VS



All in One

Falcon VS is the high performing digital audio processor combining also the Stereo Generator and the RDS Encoder. It's the all-in-one solution designed for FM broadcasting, WebRadio and Satellite stations.

Falcon VS provides a great outstanding sound, thanks to the powerful DPSs, 5-band architecture, the dual band AGCs, 3-band equalizer, stereo enhancer, speech detector and 4 limiters. The control of each audio parameter allows the broadcaster to design its favorite audio preset to get a unique branded sound. The optional LAN port with the built-in Web Server allows to take the control of the processor and tune the audio from anywhere.

The built-in digital Stereo Generator assures an extremely precise MPX Signal. The RDS Encoder (optional) is compliant to UECP SPB490, provides 2 DataSet with a wide range of static services, including Radio Text.

Falcon VS features a full connection/connectivity with analogue and digital I/O (over XLR connectors) and 2 independent MPX outputs, USB, GPI and serial ports. The hardware bypass circuit is always included to guarantee the presence of audio and continuity of audio programs.

The features available on the Audio Processor are multiple and fully customizable: 5-band compression control, dual-band AGC, a 3-band EQ and brightness control. The parameterized Stereo Enhancer command provides to the radio station sound a spacing effect and large stereo horizon openings.

The Expander control allows to minimize backgrounds and unwanted noises, while the Overdrive and SuperBass deal to make an important sound at low and medium-low frequencies,

creating an impressive sensation of loudness. The phases control of monophonic audio, gives the sound of the human voice a more natural and pleasant listening, while the final limiter drive maximizes the presence of sound. **Falcon VS** makes the sound of any single broadcaster unique without creating an artificial sound.



Your soundtrack

The soundprint of each channel can be created from one of ten preset audio files already on **Falcon VS**, from rock to classical, country, talk show, or preset audio while preserving the original sound; it enhances features and unique details. It can also recall a preset by the logic state on the port or protocol GPIIn ASCII serial / ethernet (on OPT).

The internal RDS encoder (optional) provides two DataSet, each with a wide range of services including 60 static programmable PS messages, 16 RadioText messages, Alternative Frequency (AF) to receive the best frequency as a function of 'coverage area' and Traffic Program (TP) / Traffic Announcement (TA) to listen to traffic information and functions such as EON, M/S, DI, CT, PI, PTY, PIN. The switching between the DataSet can occur by serial commands, GPIO or TCP/IP from a radio automation system. The RDS encoder complies with UECP SPB490.

The connectivity of Falcon VS is complete and versatile. The rear panel features balanced XLR connectors for the connection of the inputs and outputs, in analog and digital AES / EBU. As regards the MPX part there are two outputs individually buffered and independent for the signal MPX+RDS, plus two additional inputs AUX (SCA) with different functionalities. For remote connections there are an Ethernet TCP/IP (as option) a RS232 serial port, a USB port and a connection port GP In and GP Out to optocouplers and open collector representing the operating states and alarms. Falcon VS can be controlled remotely via Windows-based client software or through a common http thanks to the web server (on option). Universal power supply 90-264Vac 47-63Hz included to operate worldwide. Falcon VS form factor is 1 RU 19" standard.

Main Features

- ▣ 5-Band digital audio processor
- ▣ Analog and AES/EBU input and output over XLR
- ▣ Automatic audio input changeover
- ▣ 2 Composite outputs and 2 AUX inputs
- ▣ Stereo generator with composite clipper
- ▣ Mpx power control - ITU-R BS.412
- ▣ Digital RDS encoder with 2 data set
- ▣ Multiband AGC, speech detector, 3-band EQ, stereo enhancer
- ▣ Brilliance control, expander and superbass enhancer
- ▣ Usb, serial, 4 GPIn 4 GPOut

