



DIGITAL MPX & RDS CODER

Overview

BARRACUDA is both a broadcast Stereo Generator and a digital RDS encoder with static services.

BARRACUDA has a front LCD screen that shows all the working parameters and a jog wheel/button to change parameters directly over the equipment.

BARRACUDA allows to generate a MPX-RDS signal to feed your transmitter, coming from an Analog or Digital input signal.

One more input is featured: to use **BARRACUDA** only as RDS encoder and use the analog/digital audio inputs as secondary inputs and then place a new RDS signal.

BARRACUDA is the most versatile, cost effective and reliable solution designed for the broadcaster's looking for a complete equipment for a single, or a multiple transmitter-site data remote chain.



User's manual



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- Digital Stereo Generator DSP-based
- 24/7 Reliable
- Digital RDS Encoder with static services
- Analog and Digital inputs over XLR connectors
- 2 MPX+RDS output ports, 2 SCA Inputs ports
- 2 Serial Rs232 ports, 1 GPin port with TA features
- Remote software and ASCII parser supported



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Specially designed to be installed into master control room or remote transmitter site, **BARRACUDA** receives audio from STLs or Satellite links, allowing an Analog Left+Right balanced inputs, a Digital in AES/EBU input format and a MPX multiplex inputs.

BARRACUDA encodes the audio incoming into a multiplexed output, in order to achieve a complete MPX signal over BNC connectors. The stereo generator audio controls are featured with state-of-the art spectral and encoding performances: the digital modulation is generated via a DSP with 24 bits DAC @ 768 kHz with more than 100dB dynamics.

The fully digital structure allows the broadcaster to set all the parameters via software with no-trim regulation over the equipment. **BARRACUDA** has two operative Audio Control modes: full-linear, to preserve the original sound pattern and clipper audio, to keep

always the total deviation under law-limit.

Moreover, **BARRACUDA** provides a digital Radio-Data-System encoder integrated, to broadcasts station name and additional information, such as Program Service, also known as "radio station name"; the Radio Text service to deliver information about the song title and author; the RDS scheduler, to generate a complete scheduling of your "On Air" messages; the TP (Traffic Program) and the TA (Traffic Announcement).

The software to manage **BARRACUDA** comes with the equipment, to establish a communication with an ordinary Pc windows-based; **BARRACUDA** features an 8-input for GPIIn purpose and two Rs232 serial ports in Bidirectional mode or Unidirectional mode. This is helpful to connect the encoder with a satellite receiver so to allow remote management.



DIGITAL RDS CODER

Overview

DOLPHIN is an easy to use dynamic RDS encoder which supports all services and features of common use.

DOLPHIN's specifications and operation have been accurately designed to satisfy the most demanding requirements in the RDS generation and broadcasting. Using state-of-art high-speed DSP technology, **DOLPHIN** ensures the purest modulation quality (the whole processing is performed by phase linear filters). Its digital architecture also guarantees long term reliability and easy firmware updates.



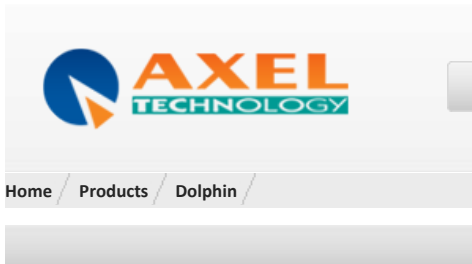
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- Full-Digital RDS coder
- Total software remote control
- Advanced dynamic PS management
- Easy interface to hard disk automation systems
- RDS characters customizable for different countries
- Dedicated sw interface for DJ and announcers
- UECP compatible



A powerful Pc control software comes with the unit. It allows control and setting in an easy and intuitive way of all RDS data and of signal generation parameters (level and phase, synchronism source, etc). The basic software screen always displays, in real time, PS and RT content currently on air, allowing a full and immediate monitor of RDS broadcasting, even when a FM tuner is not available.

A software module available as an option (i-PS technology) further boosts new PS management features: it eliminates every PS programming constraint and leaves the maximum freedom in terms of message length, save / recalling facilities and message editing masks. Any text can be entered and broadcast 'on-the-fly' both as a full PS sequence or in a scrolling mode.

Furthermore, featuring a true ASCII communication protocol, i-PS software module enables the Dolphin coder to be easily and quickly

interfaced to any hard disk automation systems, for song and artist identification on PS fields and much more!