

AM IBOC

AM Digital Exciter



AM IBOC FRONT

AM IBOC Overview

The AM IBOC is Nautel's next generation AM digital exciter. When paired with Nautel's Exporter Plus, the AM IBOC digital exciter allows for easy transmission of an AM HD Radio™ signal.

By utilizing a built in Engine card and digital AM exciter, the AM IBOC is able to accept the HD Radio™ digital program feed directly from the exporter via LAN connection. The Engine card then decodes the data and produces I and Q signals for the AM exciter which then outputs phase and magnitude to the transmitter allowing it to broadcast a digital signal. Operational settings such as frequency, audio inputs and other settings are configurable from the AM IBOC's full feature front panel display.

The AM IBOC is designed to work with Nautel's Exporter Plus as part of an HD Radio™ solution. The AM IBOC/Exporter Plus combination can be used with Nautel transmitters or third-party transmitters for seamless HD Radio™ transmission.

Software for the AM IBOC is embedded within its flash-based memory allowing for fast boot times and eliminating troublesome PC-based components. The robust flash-based architecture of the AM IBOC also significantly improves reliability while keeping costs down. Implementation is simple, reliable and cost effective.

Quick Specs

- Integrated digital AM exciter
- Integrated Engine card
- Operation in HD only, AM only or AM + HD hybrid mode
- Full featured front panel control
- Inputs/Outputs: Analog and AES audio, Ethernet/LAN, RF output
- Dual Mag/Phase outputs for day/night system plus day/night remote control inputs
- 1U chassis
- 19" wide, 1.75" high, 16" deep
- Robust firmware based solution
- Power failure tolerant
- 6 presets with auto-switching capability
- Universal AC



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