



Lasercom

AMP50 / 100 / 200 Amplifier

Lasercom AMP50/100/200 - low cost DAB output stages specially developed for local broadcasting

DAB+ is the new digital medium for radio. However, it must meet strict technical requirements. By using a GPS-locked Digital Signal Processor in the Exciter, extremely accurate frequency generation is possible. Thanks to a software-based modulator, all settings can be changed web based. Together with the output stage described here, results in a low-cost DAB transmitter that is still extremely reliable.

For optimal coverage, DAB works in a Single Frequency Network: all GPS synchronized transmitters in a particular region work with the same MUX and frequency. When ordering, the channel will be set up by us once completely ready for broadcast: You can start broadcasting immediately.



The excellent performance of the Lasercom AMP50/ 100/200 is possible thanks to:

- 1) A good linear output stage with the latest LDMOS technology.
- 2) High efficiency with a robust temperature-controlled cooling system.
- 3) Modular power supplies and output stage module. All modules are easy to replace in the event of an unexpected defect, easy and quick maintenance at transmitter location is possible.
- 4) LED bar and readouts on the front. Including "on air / standby" switch.

Most important features:

1. Affordable and less costly than major well-known brands.
2. Depending on the antenna gain, suitable for 100 - 1000 (AMP100) or 200 - 2500 (AMP200) Watts ERP
3. Compact, flexible and easy to use in any DAB network.
4. Especially for local broadcasting as a single channel or in small SFN networks.
5. A stable signal in combination with the Lasercom exciter
6. Typical MER > 35dB at all output levels and in all channels with shoulders > 34dB without mask filter.

Characteristics:

Frequency range VHF (Band III) 174 to 230 MHz in 1 Hz steps.

Digital Audio Broadcasting DAB + / DAB (determined by multiplex)

Power supply 200 to 240V 47 Hz to 63 Hz

Ambient temperature -10 ° C to + 45 ° C

Cooling Forced cooling with fans, temperature-controlled.

RF output power up to 100 (AMP100)/200 (AMP200) Watts, adjustable via exciter

RF load 50 Ohms

VSWR safety VSWR 1: 1.25

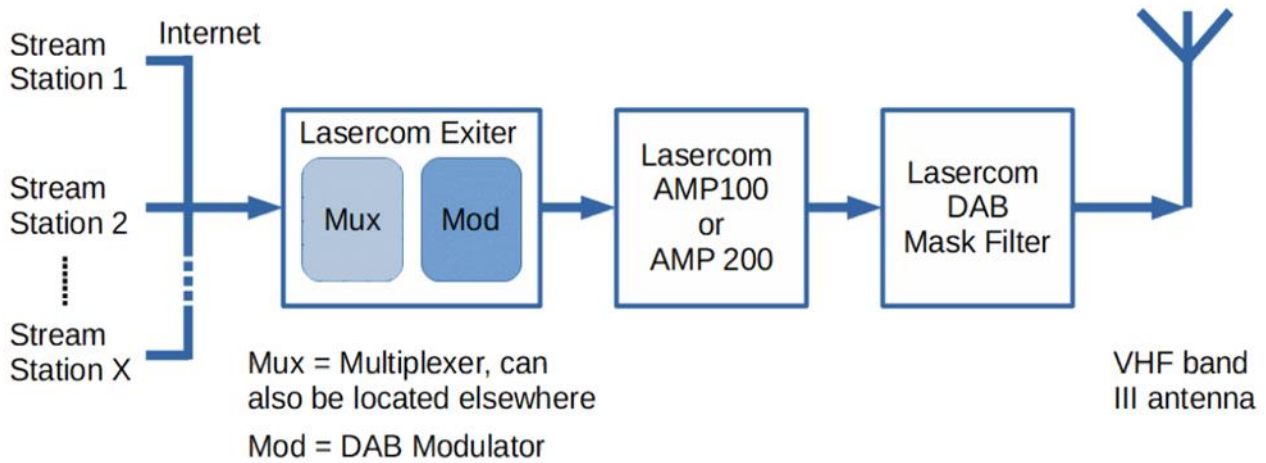
Remote control Via Exciter

shoulder distance better than -30dB with filter at 3 MHz distance better than -80dB

Dimensions 484 x 340 x 132 mm (w x d x h)

The **Lasercom exciter** together with the AMP100/200 output stage, in combination with the bandpass filter (Lasercom Filter B3), fully meets the international technical requirements for the spectrum mask according to ITU-R SM1792

Our full range of DAB modules consist of Exciter (optional with internal multiplex), a DAB output stage, spectrum mask filter and a VHF band 3 antenna system.



Other powers, up to 600 Watt is possible, sent an e-mail.

For more information about our range of affordable DAB products, please contact HF Prints

HF Prints

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