

DAB+ Partners
Digital Radio for Local Radio

Lasercom DAB exciter

A low budget DAB exciter 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 clock, the digital signal processor allows for extremely accurate frequency generation. Thanks to a software-based modulator, all settings can be made via the PC, replacing most of the user control functions by connecting a PC. The result is a low-cost DAB transmitter that is still extremely reliable.

For optimal coverage, DAB works in a Single Frequency Network configuration: all GPS synchronized stations in a particular region work with the same multiplex and on the same frequency. When ordering, we can set the DAB channel and other parameters according to your specification, so you can go straight to air.



The excellent performance of the Lasercom Exciter is possible thanks to:

- 1) Modular structure of the exciter. All modules are easy to replace in the event of an unexpected defect, so that easy and quick maintenance at the transmitter location is possible.
- 2) LED bar and readouts on the front.
- 3) Optional built-in mini PC for multiplex or remote / monitoring

Most important features:

1. Affordable and less costly than the major well-known brands.
2. Compact, flexible and easy to use in any DAB network.
3. Especially for local broadcasting as a single channel or in small SFN networks.
4. A stable signal in combination with the Lasercom output stage.
5. Typical MER > 35dB at all output levels and in all channels with shoulders > 50dB 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 maximum 5 mWatt, adjustable
VSWR safety VSWR 1: 1.25
Remote control optional
Neighbor shoulder distance better than -50dB(1mW out)
Dimensions 484 x 280 x 44 mm (w x d x h)

The **Lasercom exciter** together with the AMP100 or AMP200 Watt 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
Other amplifiers, up to 600 Watt, call

Exciter

Complete modulator with front pcb, mini-pc (option), fan and power supply in a 1HU 19" case.



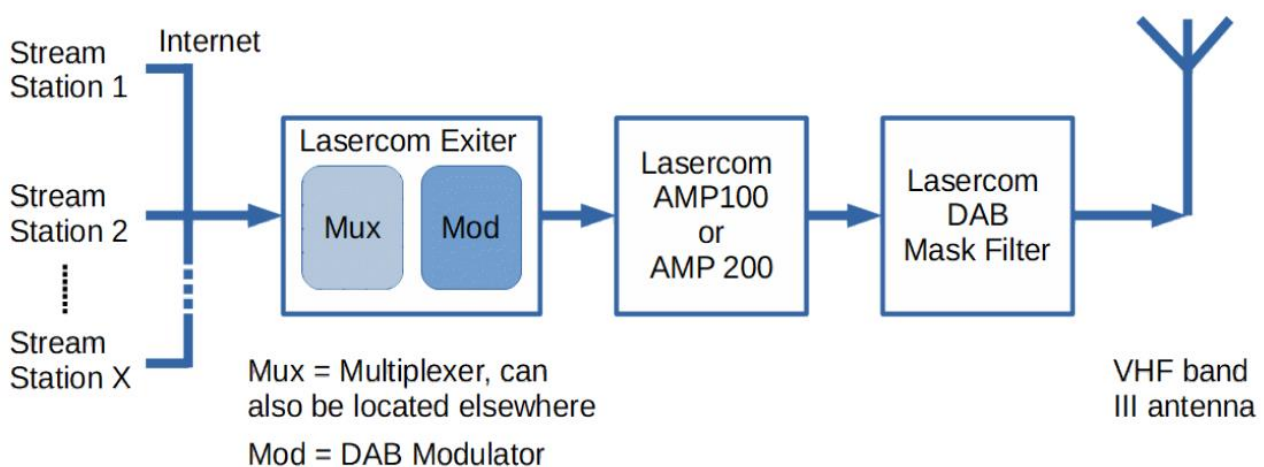
Mini-PC option for multiplexing:

To generate the DAB multiplex, a Multiplex PC uses streams delivered through the Internet from the radio stations to be broadcasted. It therefore ensures that all stations have a place in the so-called multiplex stream and sends it to the modulators of all transmitters within the SFN network, including the modulator in the exciter itself.

The multiplex PC is equipped with all necessary software for downloading the streams and converting them to a multiplexed DAB stream. Settings can be adjusted per station, e.g. audio bitrate, station-ID, etc.

If required, we can configure the multiplex for you at a surcharge.
We can also offer remote management and multiplexing through partners.

Our full range to build a Lasercom DAB transmission system consists of a DAB Exciter (with optional mini-PC), DAB Power Amplifiers, DAB Mask Filters and VHF band III antenna systems:



For more information about our range of affordable DAB products, please contact HF Prints:
www.hfprints.com info@hfprints.com