



LOW COST DIGITAL FM EXCITER



DFME 012

FEATURES

- S/N: >80 dB CCIR weighted
- In band spurious signals: -75 dB
- THD: <0.05%
- Stereo Separation: >65 dB
- 100 kHz step frequency agility
- 3V supply allow battery operation
- 32 bit internal processing.
- TMS320VC5402 based

Product description

The DFME012 is a member of the DFMExx FM Digital Exciter family of MB International.

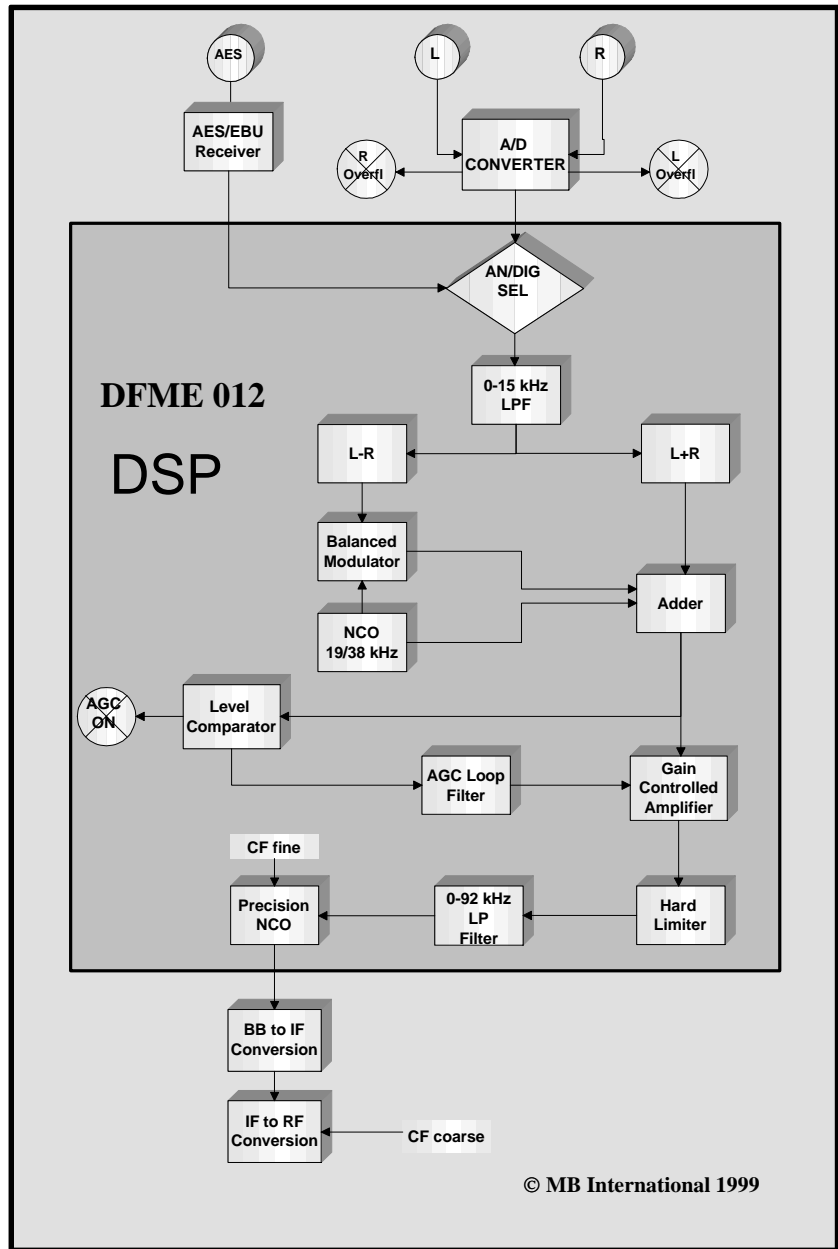
The DFMExx family is composed of several software packages built for various DSP platforms, to cover any quality and application requirement. The DFME012 is a low cost product, and is suitable for low to medium power transmitters.

The DFME012 uses a digital audio signal in order to take maximum advantage from Digital Processing.

It has an embedded high quality digital Stereo Encoder. The precision digital filter has excellent rejection at 19 kHz and an extremely flat bandwidth.

Digital modulation and stereo encoding produce a distortion-free FM modulated signal with a 16 bit (option 14-12 bit) output signal.

The DFME012 can be delivered with an optional RDS and or SCA encoder.





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Any usual side features of DFME family can be added to: the DFME012 can be easily parameterized on customer's needs.

An external controller takes care of user interface and talks with the DSPs to set up all parameters.

TMS320VC5402 DSP use allows very low cost and very low power consumption.

Application field

The DFME012 is suitable for 1 to 100 W high quality transmitters, Re-Broadcasting Exciters.

Available Options

- RDS encoder
- SCA encoder
- 16 2/3 pilot tone
- Variable emphasis limiter

MB International - Telecom Labs

MB International is an **independent Research and design** Company based in Milan, Italy.

- We are focused on the Telecom market, with particular emphasis on the **broadcasting field**.
- We deliver Standard and Custom design, covering **hardware and software**.
- We provide innovative **Digital solutions** for traditional analogue media.
- We are ready for all new Digital media: DAB, DVB, ATSC, and MPEG.

MB International services

- algorithms simulation
- hardware design
- firmware design
- technology transfer
- from single module to the complete equipment
- pre-production test prototypes
- production ready complete design
- customer's staff training
- test and production lines tuning

MB International digital products

- RDS Decoders
- Stereo Decoders
- DAB Receivers
- DVB-T Receivers
- Stereo Encoders
- RDS Encoders
- DAB Encoders
- DVB-T Encoders

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