nautel EasyDAB ETI File Generator

making digital broadcasting **work** **Phone +1.902.823.2233 / +33.299.146.332** **info@nautel.com / contactdigidia@nautel.com** **www.nautel.com**

APPLICATIONS

- Live DAB RF, live ETI or ETI file generation for test purposes
- DAB Test multiplexer and encoder
- For car, chip, module and radio manufacturers and laboratories

KEY BENEFITS

- Established solution: Used all over the world since more than 7 years
- Plug and play tabletop solution for immediate DAB testing
- ETI and RF Outputs
- Based on DIGIDIA's field proven FlexiDAB broadcast platform
- Easy to use thanks to user friendly GUIs and straight forward architecture
- Multiple DAB Ensembles and multiple ETI and RF outputs possible
- Can be used as TPEG DAB Test Kit by adding an external TPEG encoder

TECHNICAL SPECIFICATIONS

INPUTS / OUTPUTS

Audio Wave Files or MP3

ETI Files

Live audio over IP input on demand

n x EDI output or inputs compliant with TS 102 693 on Gigabit Ethernet 10/100 Base T – RJ45 connector

IP Input for data services with interfaces to different play out systems, remote FTP access

Audio PCIe Board for live audio input

With one additional RF PCIe board:

- Up to 2 x ETI(NI,G703) or ETI(NA,G704) outputs (programmable) on BNC 75Ω
- And/or with 1x RF Band III (174928 MHz - 239200 MHz) output 50Ω BNC (-3 dBm output power)
- 1x GPS aerial input on 50Ω TNC connector

Up to 4 PCI boards on 4RU IPC, or 2 on 2 RU IPC, or 1 on 1 RU IPC and MiniPC

FEATURES

Fully compliant with all the Eureka147 family of standards (EN 300 401,TS 102 563, TS 102 427/428, TS 102 693, TS 300 799, TR 101 496 -1,-2,-3 Guidelines…)

Different Industrial PC platforms on Windows OS available: 4RU, 2RU, 1 RU or Mini-PC. Dual Auto-range Power Supply, 1 RAID Hard Disk Redundant System (for 2RU and 4RU Platform only)

Multi-Multiplexer and Multi-Encoder

MFN and SFN operation (NTP client included). Embedded GPS receiver on optional PCIe board.

Dynamic Reconfiguration supported

PRBS pattern for testing

Unicode/UTF-8 Support for all international characters for DL/DL+ Text Messages, Journaline and service label

nautel EasyDAB ETI File Generator

making digital broadcasting **work** **Phone +1.902.823.2233 / +33.299.146.332** **info@nautel.com / contactdigidia@nautel.com** **www.nautel.com**

TECHNICAL SPECIFICATIONS

BASIC FEATURES

One DAB Audio Encoder (based on MPEG-1 / 2 Audio Layer II) 24/48 kHz sample rates

One DAB+ Audio Encoder (based on MPEG-2 /4 HE AAC) 32/48kHz sample
rates with SBR or PS

One DMB inserter (both video and visual radio profiles, DMB files or TS files

ETI file recording and playing

FEATURES FOR RECEIVER PROFILE 1

Service Following and Linking

Announcement Support and Switching including AFS (Automatic Frequency Switching)

EPG Inserter

TPEG Inserter

FEATURES FOR RECEIVER PROFILE 2&3

MOT Slide Show

MOT BWS

BIFS Inserter for DMB Visual Encoder

HARDWARE OPTIONS ON REQUEST

ETI G703 (NI and NA) card for live ETI output

RF PCI express board for RF band III output (-3dBm, 75 Ω)

GPS module for RF PCI Express board (only for SFN Operation)

Audio Board for Live Audio Input

THRID PARTY EXTERNAL EQUIPMENT ON REQUEST

External Modulator with RF output and ETI input

Low Power Amplifier

Programmable Attenuator for up to 120 dB attenuation (step of 1dB)

Transmitting Antennas

CONTROL AND MONITORING

Remote control through a web server with user friendly GUI

SNMP Monitoring (MIB V2)

SOFTWARE OPTIONS ON REQUEST

Additional Audio Encoders (DAB or DAB+)

MPEG Surround Encoders (DMB, DAB+ and DAB Classic)

Automatic Configuration Scheduler for Automation

Additional TS over IP Inputs for DMB services

DMB Visual Radio Encoder (Live AAC+ audio encoding and H.264 video encoding of jpeg, png or bmp pictures

Journaline Encoders

TPEG Encoders from third party suppliers

SFN operation of 2 ,3 or 4 RF PCI Boards (only with GPS module hardware option)

All audio encoders can be delivered with MPEG surround option

MECHANICAL

Dimensions and weight:

- 1RU: 483 (19'') x 520 x 44 mm; 9 kg, rackable
- 2RU: 483 (19'') x 640 x 88.5 mm; 15 kg, rackable
- 4RU: 483 (19'') x 570 x 177mm; 21 kg, rackable
- Cube: 255 x 250 x 153mm, not rackable

TEMPERATURE RANGE

- Operating: 0°C to 50°C
- Storage: -20°C to 70°C

Humidity: 10% to 90% at 50°C

ELECTRICAL

- AC Input: 110-240 V, 50/60 Hz
- Power consumption: < 100W

TECHNICAL SPECIFICATIONS