



## APPLICATIONS

- DAB/DAB+/DMB multiplexing and encoding in studios, in a central site or directly at the transmitter site
- Serves as Service Multiplexer, Ensemble Multiplexer, Re-Multiplexer, Audio Encoder, Data Encoder
- DAB test transmission in trials

## KEY BENEFITS

- Field Proven: Used in France, South Africa, UK, Hungary, Slovakia and Australia,
- Extremely portable solution on different industrial PC (1RU,2RU, 4RU, Cube) and virtual machine platforms
- Multi-encoding (audio and data) and multi-multiplexing
- Can be used as ensemble, service or remultiplexer
- Perfectly adapted for IP based distribution and contribution network architecture and virtual machines
- Easy to use, user friendly GUI, straight forward architecture
- 1+1 hot redundancy (seamless)
- EDI, ETI and RF output possible
- EDI Redundancy Gateway Option
- Virtual Service Multiplexer and User Right Management
- Push and Pull Data
- HTTP and SNMP interfaces

## TECHNICAL SPECIFICATIONS

### INPUTS / OUTPUTS

1 x digital (balanced) on RCA or S PDIF coaxial connector or 1x analog (balanced, 10kΩ minimum) audio input via internal audio PCI board (hardware option)

4 x digital (balanced, 110Ω) or 4x analog (balanced, 600Ω) audio input on female XLR inputs via external audio panel (hardware option)

Audio over IP input: AES 67, MP3 over Icecast (incl. Metadata for PAD), MP3 over RTP, AAC over RTP, MP3/AAC over MPEG-TS and RTP and others 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

With one additional PCIe board (up to 4 boards on 4RU IPC, or 2 on 2 RU IPC, or 1 on 1 RU IPC and MiniPC):

1x GPS aerial input on 50Ω TNC connector

and

Up to 2 x ETI(NI,G703) or ETI(NA,G704) inputs or outputs (programmable) on BNC 75Ω

Or

1x RF Band III (174928 MHz - 239200 MHz) output 50Ω BNC (-3 dBm output power)

### FEATURES

Fully compliant with all the Eureka147 family of standards (EN 300 401 V2.1.1, 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 RAID, 1 Hard Disk Redundant System (for 2RU and 4RU Platform only)

Can be completely virtualized

Multi-Multiplexer and Multi-Encoder

Virtual Service Multiplexer with third party remote access and user right management

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

1+1 Hot Redundancy

Up to 64 EDI Inputs.

Option : Smart EDI Input with redundant stream management, time shifting and subchannel redundancy management

Dynamic Reconfiguration supported

### AUDIO ENCODER SOFTWARE OPTIONS

- DAB Audio Encoders (based on MPEG-1 / 2 Audio Layer II) 24/48 kHz sample rates
- DAB+ Audio Encoders (based on MPEG-2 / 4 HE AAC from DOLBY/CODING License) 16/24/32/48kHz sample rates with SBR or PS
- DAB+ Audio Encoders (based on MPEG-2 / 4 HE AAC from Fraunhofer License) 16/24/32/48kHz sample rates with SBR or PS
- DMB Encoder and BIFS insertion on demand

All audio encoders are delivered with DL/DL+ text message feature

All audio encoders can be delivered with MPEG surround option

### DATA ENCODER SOFTWARE OPTIONS (PAD AND NPAD)

- News Service Journaline
- Broadcast Website
- Slide Show
- Electronic Program Guide
- TPEG
- IP Tunneling

PRBS pattern for testing

Smart Audio multiplier with source switching possibility for audio input redundancy



## TECHNICAL SPECIFICATIONS

Pull data with HTTP and JSON Interfaces, Image Resizing

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

- Automatic Scheduler
- DMB Video Insertion (EDI or TS input)
- Keep alive feature with packet regeneration to avoid transmitter shutdown

### ELECTRICAL

AC Input: 110-240 V, 50/60 Hz

### MECHANICAL

Temperature Range:  
Operating: 0°C to 50°C  
Storage: -20°C to 70°C  
Humidity: 10% to 90% at 50°C

### OTHER SOFTWARE OPTIONS

- Service Following and Linking
- Announcement Support and Switching including AFS (Automatic Frequency Switching) and EWF (FIG 0/0)

### CONTROL AND MONITORING

Remote control through a web server with user friendly GUI

SNMP Monitoring (MIB V2)

## CREATE YOUR OWN DAB/DAB+/DMB MULTIPLEXING SYSTEM!

