

DAB/DAB+ AUDIO ENCODER

- High quality audio encoder for Digital Audio Broadcasting
- D-AUDIENCENCE+ support HE AAC encoding for DAB+
- IP and X21 connection



- Analog & digital audio inputs
- All DAB audio bit rates and sampling frequencies are supported
- Full PAD (Program Associated Data) support
- Robust & cost effective



Specifications

KEY FEATURES

- ✓ Coding Algorithm for DAB
 - ISO/MPEG Layer II Audio Encoder ISO 102563
 - Fully compliant DAB EN 401
 - Optional MPEG Surround feature
- ✓ Sampling Frequencies DAB
 - 24 kHz - 48 kHz - 32 kHz - 48 kHz
- ✓ Bit Rates
 - From 8 kHz/s to 192 kbits/s by step of 8 kbits/s
- ✓ Frequency Range
 - 20Hz to 20 kHz = 0.3dB

COMPATIBILITY

- ETSI EN 300 401 v1.4.1 DAB standard
- ETSI TS 102563 DAB⁺
- ISO/IEC 102563 DAB⁺ standard
- ISO/IEC 14496-3 MPEG4 format
- Firmware upgradable to DAB⁺ (MPEG-1/2 Layer II encoder)

ENVIRONMENT & MECHANICAL DATA

- ✓ Temperature Range
 - +5°C to +50°C
- ✓ Housing
 - 19" instrument cabinet, 1U height
- ✓ MTBF
 - More than 50,000 hours
- ✓ MTTR
 - 30 minutes
- ✓ Weight
 - 3 kilos
- ✓ Dimensions
 - 44 mm (H) x 483 mm (W) x 269 mm (D)
- ✓ Power Supply
 - Mains Voltage : 90-253 VAC (IEC 320 mains connector)
 - Frequency : 50-60 Hz
 - Power Consumption : Approx.12W

INPUTS

- ✓ Analog Input
 - Input Type : Balanced analog input
 - Audio Level : Adjustable from -3 dB to +9dB
 - Input Impedance : 600 ohms
 - Max. Input Voltage $\pm 15v$ (terminals are diode clamped to $\pm 15V$)
 - Connector : XLR Female
- ✓ Digital Input
 - Input Type : Balanced AES/EBU or S/PDIF
 - Option : Emphasis can be remote digitally
 - Input Impedance : 120 ohms $\pm 5%$ (AES/EBU, professional standard)
 - Connector : XLR Female

DATA

- ✓ PAD Interfaces
 - Input Type : RS232 up to 115200 bps
 - UDP input
 - Connector : Subminiature D-type, Female, 9-pin

CONTROL & ALARM

- ✓ Remote Control
 - Interface : Contact closure/opening
 - Alarms : Power failure, internal errors
 - Contact Rating : TTL 0 +5V and 2 relay 48V max 0.2A
 - Connector : Subminiature D-type, Femal, 15-pin
- ✓ Alarm
 - Interface : Contact closure/opening
 - Alarms : Power failure, internal errors
 - Contact rating : TTL 0 +5V and relay 48V max 0.2A
 - Connector : Subminiaturer D-type, Mal, 15-pin

OUTPUTS

- ✓ MPEG Output X.21
 - Output Type : Balanced X.21, serial MPEG encoded data Pure MPEG
 - Bit-rate Accuracy : ± 20 ppm when locked to internal reference
 - Ext. Ref. Input Impedance : 120 ohms
 - Ext. Ref. Lock Range : ± 50 ppm
 - Ext. Ref. Input Type : Balanced X21, frequency must be equal to a supported bit-rate
 - Connector : Subminiature D-type, Male, 15-pin
- ✓ MPEG Output IP
 - MPEG audio and data transmit over an IP network



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