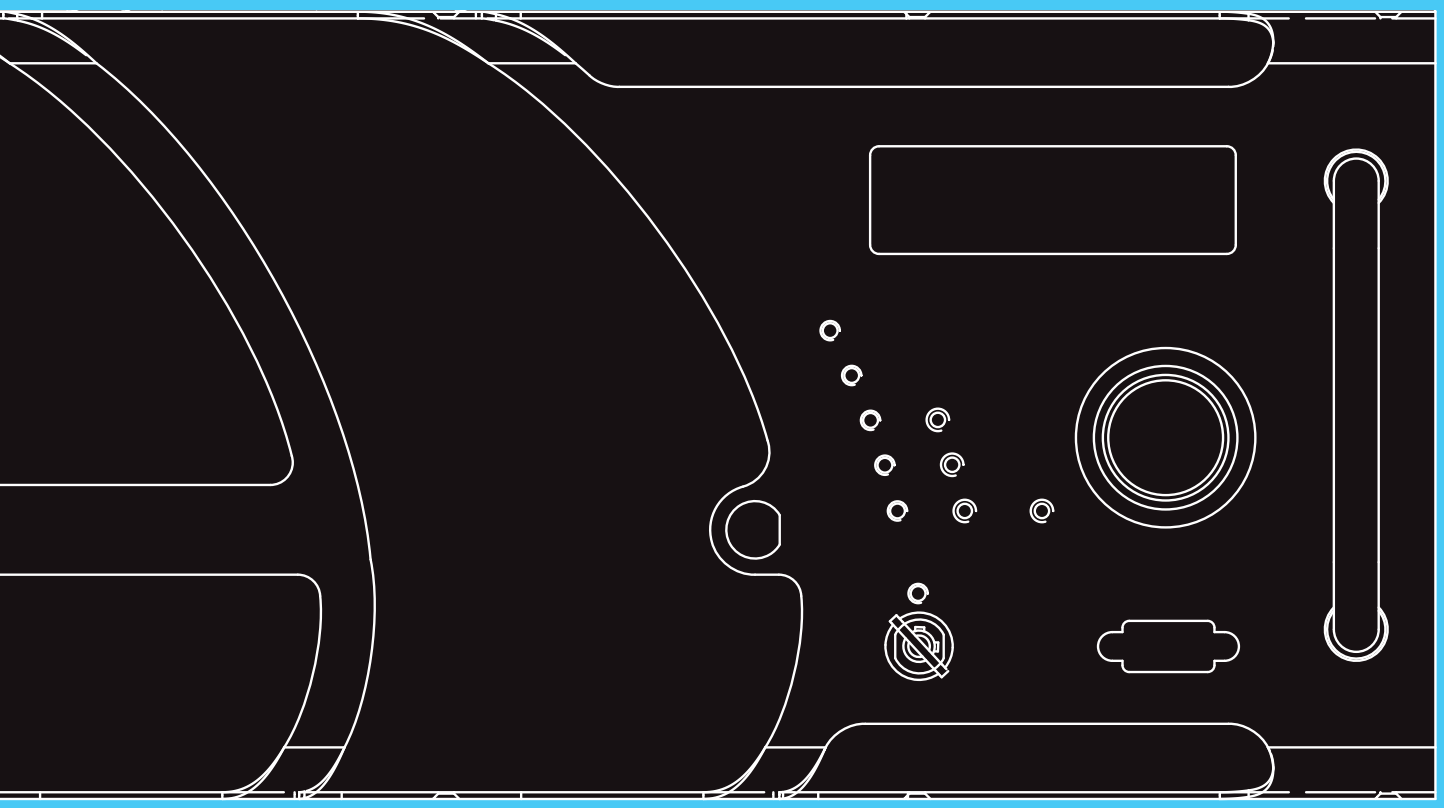

# DAB
# 300/600

DAB TRANSMITTER

ELENOS®
World Broadcast Experience


*All images are proprietary from Elenos and are for indicative purposes only.
Technical data can be subject to change without notice.

our technologies

Icefet

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Brochure

# VHF TRANSMITTER
# DAB BAND III

The new line of digital audio broadcasting transmitters (DAB300 e DAB600) in VHF band III are comply with Elenos standard : high power in extremely compact size and a good total efficiency value for this kind of product.
Low space and energy requirements are then combined with maximum signal quality, guaranteed to an high MER value (typical 33dB), to a typical shoulder attenuation of 37dB when the transmitter operates at nominal power and to the possibility to play on an adjustable crest factor and on an adaptive precorrection.

Transmissions in line with the existing DAB, DAB+ and T-DMB specifications are supported.
The user can switch between two ETI (G703, G704) input signals (in any case automatically detected).
Single frequency network and multi frequency network operation are possible, also thanks to an internal or an external GPS receiver.
Equipped with protective circuits and algorithm the transmitter deliver high reliability.
A simple interaction with the machine is made possible by easy setting parameters and advanced remote control mechanisms (SNMP and WEB).

## Features:

- High power in extremely compact size
- Easy setting parameters
- SFN/MFN network operation
- Adaptive precorrection (non linear)
- Direct to channel
- High MER
- High reliability
- Adjustable crest factor reduction (PAPR)
- Internal/external GPS
- DAB, DAB+, T-DMB supported standards
- DAB modes: I, II, III, IV
- ETI G703/G704 input
- Advanced remote control

Datasheet

# DAB TRANSMITTER | DAB300

DAB TRANSMITTER | DAB300 | DAB600

| | |
|---|---|
| **GENERAL DATA** | |
| Frequency range | 174 - 240 MHz (VHF Band III) |
| Output connector power | 350W rms |
| Number of internal amplifiers | 1 |
| Maximum permissible reflection (VSWR) | 1.3 |
| RF output impedance | 50 Ohm |
| Gain | until 63dB |
| Supported standards | DAB, DAB+, T-DMB |
| DAB modes | I, II, III, IV |
| DAB-specific parameters | in line with EN 300 401 v.1.4.1, EN TS 102 428 v.1.1.1, ETSI ETS 300 799 v.1.5.1 |
| Network operation | SFN,MFN |
| Shoulder attenuation at nominal power (typical) | 37dB |
| MER (typical) | 33dB |
| Delay compensation | max 1s, step size 100ns |
| External reference clock | 10MHz and 1PPS inputs |
| Dimensions | 48.5 x 17.6 x 70 cm |
| Weight | 38kg |
| **CONNECTORS** | |
| RF output connector | 7/16 |
| Signal input | 2x G703 SMA 75 Ohm<br>NI(G703), NA5376(G704), NA5592(G704) automatically detected |
| GPS antenna input | SMA, internal/external |
| **INSTALLATION REQUIREMENTS** | |
| Power supply | 230 1-phase 50/60Hz VAC |
| Power consumption (typical) | 1KW |
| Efficiency (typical) | 35% |
| **COOLING/NOISE/DATA** | |
| Cooling system | air cooling with 6 internal fans |
| Air temperature increase | 17 °C |
| Acoustic noise | < 65 phon<br>@ transmitter room, 2 m distance of the front of transmitter |
| **ENVIRONMENT** | |
| Temperature range (operating) | -5°C - +45°C |
| Temperature range (non operating) | -20°C - +55°C |
| Humidity range (operating) | 95% @ 40°C non-condensing |
| Humidity range (non operating) | 90% @ 55°C non-condensing |
| Altitude range (operating) | < 3000 meters |
| Altitude range (non operating) | < 15000 meters |
| **TELECONTROL & TELEMETRY** | |
| Telecontrol & Telemetry | advanced remote control |

# DAB TRANSMITTER | DAB600

| | |
|---|---|
| **GENERAL DATA** | |
| Frequency range | 174 - 240 MHz (VHF Band III) |
| Output connector power | 700W rms |
| Number of internal amplifiers | 2 |
| Maximum permissible reflection (VSWR) | 1.3 |
| RF output impedance | 50 Ohm |
| Gain | until 63dB |
| Supported standards | DAB, DAB+, T-DMB |
| DAB modes | I, II, III, IV |
| DAB-specific parameters | in line with EN 300 401 v.1.4.1, EN TS 102 428 v.1.1.1, ETSI ETS 300 799 v.1.5.1 |
| Network operation | SFN,MFN |
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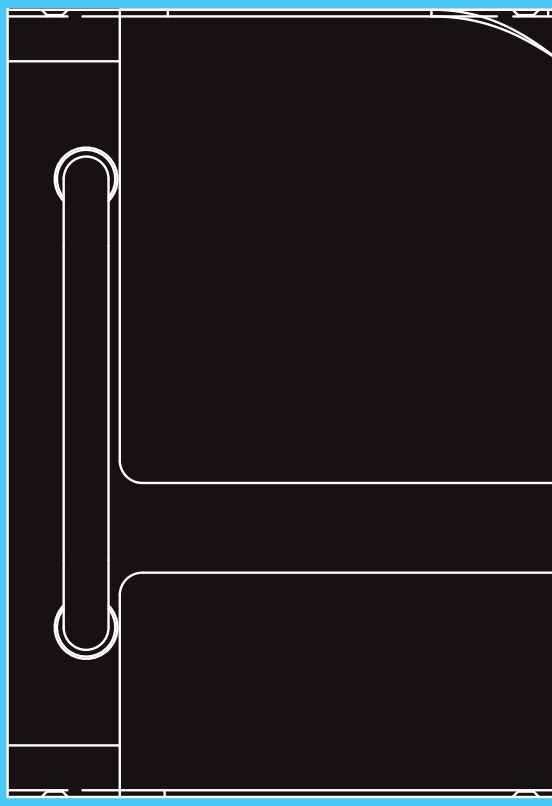

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