



# MAXIVA™ MULTID

Super compact Multi-channel  
DAB/DAB+ transmitter (3 channels in 1RU)

Up to now, the simultaneous broadcasting of 3 separate DAB ensembles from the same site implied a bulky combination of modulators, power amplifiers, SFN adapters, channel filters and combiners. Maxiva MultiD wipes all that stuff away from your sites, at a fraction of the cost you can expect from traditional equipment.



## Maxiva™ MultiD Product Features

Into a single 1 RU chassis, Maxiva MultiD provides you with up to 3 complete DAB/DAB+/T-DMB transmitters with independent input, signal processing engine, DAB modulation stages, and an ultra-linear “common mode” 150W high efficiency Doherty amplifier: The generated channels are combined at low level, allowing broadcasters to avoid, in case of operation on adjacent channels, external RF combiners: the Maxiva MultiD features just a single RF antenna connector, requiring only band-pass filter.

The output power can be individually set per each of the channels in use to fit compliance requirements. Maxiva MultiD also supports individual SFN operation for each DAB/DAB+ emission, and features a built-in GPS receiver.

Maxiva MultiD’s modular design allows you to buy and install just the number of transmitters you need. You’ll be able to expand its capabilities down the road if needed.

Both the power amplifier module and the power supply unit included into the Maxiva MultiD can be easily and individually replaced while the chassis is on its frame.

Designed for last-mile applications, Maxiva MultiD saves footprint at transmitter sites and perfectly suits any low power broadcasting application, including road and railway tunnel coverage.

### Maxiva™ MutiD Transmitter Family Features

- Compact 1U 19” rack chassis
- Total output (common amplification) up to 150W rms
- High efficiency broadband amplifier technology
- DAB/DAB+/T-DMB modulations fully supported
- Broadband adaptive pre-correction circuits
- 3 independent ETI inputs
- No need for external RF combiner or adjacent channels operation
- Optional on-board high stability GPS/GLONASS receiver with battery
- SNMP, Web Interface and Touch Screen display
- Optional 1RU redundant power supply

# Maxiva™ MultiD

## Specifications

Specifications and designs are subject to change without notice

<b>Transmitter</b>	
Digital Output Power	up to 150 W rms (common amplification)
M.E.R.	34 dB typ. (DAB/DAB+/T-DMB)
Frequency Agility	VHF Band III - from 174 to 240 MHz (up to 260 MHz, optional)
Frequency Resolution	1 Hz
Pre-Correction	Adaptive and broadband
RF Output Connector	N(f), 50 Ohm
<b>Modulator</b>	
<b>DAB/DAB+/T-DMB</b>	
Standard	EN300401, ETS 300799
Inputs	3x ETI (NI{G703}, NA5376{G704} or NA5592{G704}) BNC (f), 75 Ohm
Transmission Modes	Mode I, II, III, IV (Automatically detected from the ETI stream, or user selectable)
Operation	MFN or SFN operations
<b>GPS/GLONASS (Option)</b>	
Input Connector	N (f), 50 Ohms
Input/Monitor Output 10 MHz	BNC (f), 75 Ohm
Input/Monitor Output 1 PPS	BNC (f), 75 Ohm
Phase Noise	-140 dBc/Hz @ 10 kHz -150 dBc/Hz @ 100 kHz
Stability	1e-12 / 24 H with disciplined OCXO
Hold-Over Stability	5 µs after 5 hours (optional 1 µs after 24 hours)
<b>Mechanical</b>	
Chassis	1RU 19"
Width	482 mm
Height	43.6 mm
Depth	460.5 mm, fans excluded
Weight	7.5 Kg
<b>Controls</b>	
TFT touchscreen	
Web GUI	
SNMP	
GPIO	
<b>Environmental</b>	
Operating temperature range	-5°C ÷ 40°C
Max. relative humidity	90% non condensing
Max. operating altitude	2500 m. a.s.l. (>2500 m. optional)
<b>Electrical</b>	
Power supply	Single Phase 100÷240 V~ 50/60 Hz, IEC320 C14 Plug
Efficiency	Up to 33%
<b>NOTES</b>	
To comply with the applicable standards and limit values for the suppression of out-of-band emissions (and in the case of digital standards, also for maintaining the required shoulder distance), the transmitter may only be operated with suitable filters at the RF output.	
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