



## EUROCASTER DDS 3000 – 3 kW FM TRANSMITTER COMPACT

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### **Prognostic**

Analysis for predictive maintenance

### **Simply**

Hot pluggable PSU - Easy to replace fans

### **Controls**

LCD display, Web server and SNMP

### **Integrated unique features**

Micro SD card slot

FM, Satellite and Terrestrial receiver

### **Advanced Efficiency Boost**

Efficiency up to 75% with adaptive optimization

### **Digital Processing**

Unique performances thanks to DDS digital modulator

### **Stereo & Soft clipper**

Always included

Audio processor

Full telemetry with 3G connection

## GENERAL SPECIFICATION

<b>Output frequency range</b>	87.5 to 108MHz in 1Hz steps
<b>Output Power</b>	3000W (tol. +0/-0.5dB)
<b>Output connector</b>	FL 7/8" EIA
<b>Spurious and harmonic suppression</b>	Compliant with ETSI and FCC specification
<b>Analog input</b>	2x XLR female (Balanced; impedance 600Ω/10KΩ selectable)
<b>MPX/SCA/RDS input</b>	2x BNC female (Unbalanced; impedance 50Ω/10KΩ selectable)
<b>Soft Clipper with band limitation</b>	Included
<b>Power consumption</b>	Typ. 4,1KVA - Max. <4,6KVA
<b>AEB (Advanced Efficiency Boost)</b>	Included
<b>Power supply</b>	230Vac single phase/ 400Vac three phase start conn. (with power neutral)/ 230Vac three phase delta conn. (without power neutral)
<b>Operative temperature</b>	-5°C to +45°C @MSL
<b>Maximum operative altitude</b>	3000m ASL. For higher altitudes please contact our sales dept.
<b>Maximum operative humidity</b>	95% non-condensing
<b>Housing</b>	Rack drawer 19" 4U
<b>Weight</b>	<30Kg



## SOFTWARE OPTIONS

<b>S-AM-UN</b>	Audio monitor for input or on-air signal + test tone generator
<b>S-SD-UN</b>	Micro SD card slot
<b>S-AES-UN</b>	Digital AES/EBU & AES192 (MPX over AES) inputs
<b>S-FMRX-UN</b>	FM receiver input (for regenerative FM repeater/ translator)
<b>S-SWI-UN</b>	Automatic input switching (n.3 MPX profiles – audio/ RDS)
<b>S-RDS-UN</b>	Static RDS coder
<b>S-RDS+-UN</b>	Dynamic RDS
<b>S-IP-UN</b>	IP input (Iccast2 streaming & AES67)
<b>S-DMPX-UN</b>	Digital MPX over TS & Digital MPX over IP
<b>S-ISO-UN</b>	SFN/ Isofrequency operation
<b>S-AP-DEL</b>	Delossifier (for audio processor H-AP-PRO)
<b>S-AP-ARDS</b>	Advanced RDS (for audio processor H-AP-PRO)

Included in  
**S-PLUS-UN**

## HARDWARE OPTIONS

<b>H-SATDTT</b>	Embedded Satellite and Terrestrial receiver demodulator. DVB-S/S2 (L-band input) and/or DVB-T/T2 and ISDB-T (VHF/UHF band input)
<b>H-3G</b>	2G/3G modem router for remote connection/telemetry and SMS
<b>H-I/O</b>	Analog telemetry interface with n.3 isolated clean contact outputs, n.4 optoisolated inputs, n.4 analog outputs (0 to 5V), mini UPS for remote control, for router and for telemetry interface, RF filter for router
<b>H-AP-PRO</b>	Audio Processor card with professional software license, Advanced Dynamics (Auto EQ & dynamic ratios), Declipper & Natural Dynamics
<b>H-SATDTT2</b>	Second Redundant Embedded Satellite and Terrestrial receiver demodulator with seamless switching
<b>H-CAM</b>	CAM Slot (Common Interface Module)
<b>H-ASI</b>	ASI T.S. input (or output) interface
<b>H-REF</b>	10MHz and 1pps inputs
<b>H-GNS</b>	High stability reference oscillator GNSS (GPS + GLONASS) locked, oven clock 10MHz + 1pps outputs
<b>H-AGNS</b>	GPS/GLONASS receiving antenna (gain 26dB typ.) + 15 meters cable

# EuroCaster

The software-based audio processor can be integrated in any of our EuroCaster DDS transmitters, from low and medium compact versions to high power line.

**“H-AP” Audio Processor** offers outstanding audio quality and comes with many unique features.



## FM Composite Clipper

Up to 140% audio level at 100% modulation gives 2-3 dB extra headroom for highs. Improve your audio, being the loudest and cleanest station on the dial!

## Stereo & RDS Coder

Built-in stereo and RDS encoder  
RT+

## Advanced Dynamics & EQ

Increases the dynamics for music that lacks dynamics. Adjusts the spectrum without compression, making it possible to generate a very consistent sound without sounding compressed

## Dehummer

Improves the sound of MPEG2/MP3 style lossy compressed files, removing unwanted constant sounds, such as a 50/60 Hz hum from bad cables

## Better FM reception

Improves stereo reception area up to 30Km

## Declipper & Natural Dynamics

Repairs clipped audio, removes distortion  
Restores Natural Dynamics

## Delossifier \*

Improves the sound quality of MPEG2/ MP3 style lossy compressed files

*All specifications contained in this document may be changed without prior notice*