

# ROMEO600 - 600W FM TRANSMITTER

### **COMPACT VERSION**



## **Prognostics**

Analysis for predictive maintenance

### Easy Care

Hot pluggable PSU - Easy to replace fans Redundant power supply option

### Controls

LCD display, Web server and SNMP

# Integrated unique features

Micro SD card slot

FM. Satellite and Terrestrial receiver

# **Advanced Efficiency Boost**

Efficiency over 75% with adaptive optimization

# **Digital Processing**

Unique performances thanks to DDS digital modulator

# Stereo & Soft clipper

Always included

Audio processor

Full telemetry with 3G/4G connection

### **GENERAL SPECIFICATION**

Output frequency range 87.5 to 108MHz in 1Hz steps

**Output Power** 600W (tol. +0/-0.5dB)

Output connector 7-16 female

**Spurious and harmonic suppression**Compliant with ETSI and FCC specification

Analog input 2x XLR female (Balanced; impedance  $600\Omega/10K\Omega$  selectable)



# ROMEO SERIES DDS FM TRANSMITTERS

MPX/SCA/RDS input 2x BNC female (Unbalanced; impedance 50Ω/10ΚΩ selectable)

Soft Clipper with band limitation included

Power consumption Typ. 0,8kVA - Max. <0.9kVA

AEB - Advanced Efficiency Boost Included

AC Input voltage and frequency 90-264Vac, 47 to 63Hz single phase

AC/DC Power Supplies Single power supply hot pluggable from the front panel. Option for double, fully

redundant

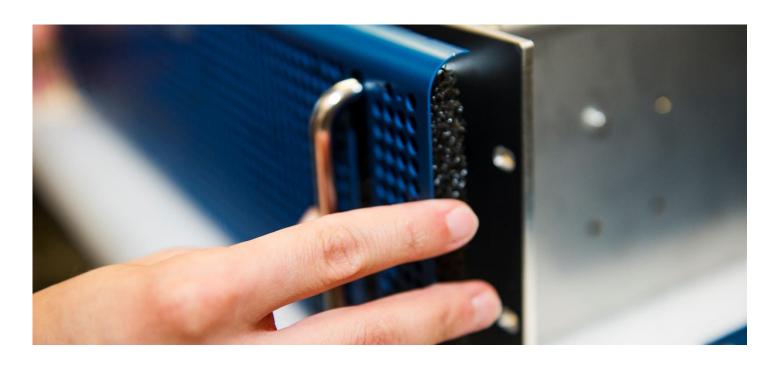
Operative temperature & fans -5°C to +45°C @MSL. N.2 fans on the rear panel. Option for redundant

Maximum operative altitude 3000m ASL. For higher altitudes please contact our sales dept.

Maximum operative humidity 95% non-condensing

**Housing** Rack drawer 19" 3U, depth 45cm

Weight <18Kg





# ROMEO SERIES DDS FM TRANSMITTERS

	SOFTWARE OPTIONS	
S-AM-UN	Audio monitor for input or on-air signal + test tone generator	
S-SD-UN	Micro SD card slot	
S-AES-UN	Digital AES/EBU & AES192 (MPX over AES) inputs	<u>⊆</u> <b>=</b>
S-FMRX-UN	FM receiver input (for regenerative FM repeater/ translator)	Included in S-FULL-UN
S-SWI-UN	Automatic input switching (n.3 MPX profiles – audio/ RDS)	Incl 5-FI
S-RDS-UN	Static RDS coder	
S-IP-UN	IP input (Icecast2 streaming & AES67)	
S-DMPX-UN	Digital MPX over TS & Digital MPX over IP in/out	
S-RDS+-UN	Dynamic RDS	
S-ISO-UN	SFN/ Isofrequency operation	
S-AP-DEL	Delossifier	Only with <b>4-AP</b>
S-AP-ARDS	Advanced RDS	Ç≱∓

HARDWARE OPTIONS		
H-SAT	Embedded Satellite receiver demodulator. DVB-5/52 (L-band input) Low	
	Symbol Rate with loop	
H-SATDTT	Embedded Satellite and Terrestrial receiver demodulator. DVB-S/S2 (L-band	
	input) and DVB-T/T2 and ISDB-T (VHF/UHF band input)	
H-3G; H-4G	2G/3G or 3G/4G modem router for remote connection/telemetry and SMS	
H-I/O	GPIO interface with n.3 isolated clean contact out, n.4 optoisolated in, n.4	
	analog out (0 to 5V), mini UPS for remote control, RF filter for router	
H-AP-PRO	Integrated audio processor card with professional software license	
H-SATDTT2	Second Redundant Embedded Satellite and/or Terrestrial receiver	
	demodulator with seamless switching	
H-CAM	CAM Slot (Common Interface Module)	
H-ASI	ASI T.S. input (or output) interface	
H-REF	10MHz and 1pps inputs	
H-GNS	High stability reference oscillator GNSS (GPS + GLONASS) locked, oven clock	
	10MHz + 1pps outputs	
H-AGNS	GPS/GLONASS receiving antenna (gain 26dB typ.) + 15 meters cable	
H-PSU	Redundant 1600W power supply unit	
H-FAN	Fully redundant fans	

# ROMEO SERIES DDS FM TRANSMITTERS

The software-based audio processor can be integrated in any Romeo Transmitter, from low and medium compact versions to high power line. **H-AP-PRO 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