

## WAVE 30 – 30W FM TRANSMITTER COMPACT VERSION



### Easy Care

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

### Digital Processing

Unique performances thanks to DDS  
digital modulator

### Stereo & Soft clipper

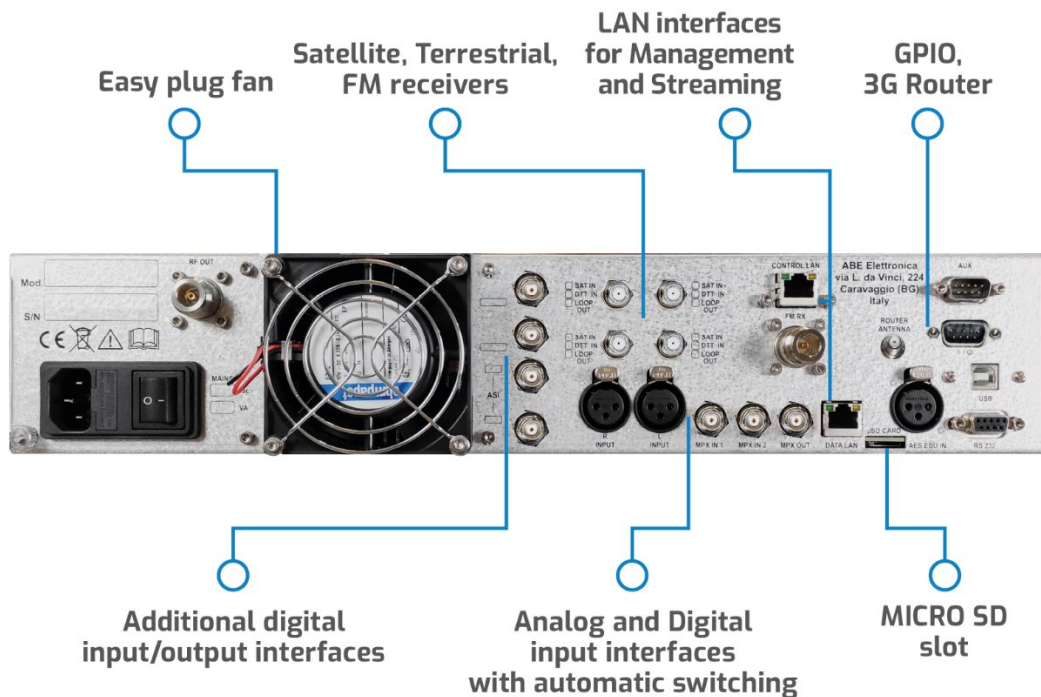
Always included

Audio processor

Full telemetry with 3G/4G connection

**GENERAL SPECIFICATION**

Output frequency range	87.5 to 108MHz in 1Hz steps
Output Power	30W (tol. +0/-0.5dB)
Output connector	N female
Spurious and harmonic suppression	Compliant with ETSI and FCC specification
Analog input	2x XLR female (Balanced; impedance 600Ω/10KΩ selectable)
MPX/SCA/RDS input	2x BNC female (Unbalanced; impedance 50Ω/10KΩ selectable)
Soft Clipper with band limitation	Included
Power consumption	Typ. 270VA (@98MHz 150W power)
AEB - Advanced Efficiency Boost	Included
AC Input voltage and frequency	90-264Vac, 47 to 63Hz single phase
AC/DC Power Supplies	Single power supply
Operative temperature & fans	-5°C to +45°C @MSL. N.2 fans on the rear panel
Maximum operative altitude	3000m ASL. For higher altitudes please contact our sales dept.
Maximum operative humidity	95% non-condensing
Housing	Rack drawer 19" 2U
Weight	<12Kg



## SOFTWARE OPTIONS

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

## HARDWARE OPTIONS

H-SAT	Embedded Satellite receiver demodulator. DVB-S/S2 (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), 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

The software-based audio processor can be integrated in any Wave 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*