



CTE Compact FM Transmitters-Amplifiers

The new HTS are Compact FM Transmitters-Amplifiers High Efficiency Touch Screen based on the last generation of RF Devices that greatly increases the total equipment efficiency and reliability reducing dimension and weight. The power supply modules are hot plug-in for un easy and fast service. The touch screen display grant an easy and fast access to all the setting and parameters.



The Main Features are :

- Highest efficiency (>85% RF section)
- Nominal RF power 2000W
- Redundant Power Supply
- Very low signal noise typ. -82 dB
- High stereo performance typ. 60 dB
- Extremely low distortion 0,01%
- 6th Id-mos generation vswr 65:1
- Large LCD color display with touch panel
- Ac mains 90-260 vac extend range with pfc
- Web server and Mobile Interface
- Parallel interface with 6 Frequency/Power preset value

OPTI ONS

- AES/EBU
- RDS /RBDS coder
- SNMP remote control
- OIRT and JPN version
- Audio OverIP
- DSP FM Modulator

Model	Description
TX2-HTS	2KW Stereo, MPX FM Transmitter, Touch Screen, WEB Remote Control
VL2-HTS	2KW FM Amplifier, Touch Screen, WEB Remote Control

**Technical Data**

ITEM	TX2-HTS VL2-HTS
R.F. Output Power	2000 W
Power Detector	adjustable from 20÷90% of the power
Protection against load mismatch	65/1
Output Connector, Impedance	7/8 flange , 50 Ohm
Dimensions HxWxD mm	W x 570 mm. D x 450 mm. H x 132 mm
Rack	3U
Weight	22 Kg
Power Supply	90-265 Vac ± 15%, single phase 50Hz
Power Factor	0,98
Operation Temperature	0-45°C
Number of fans	3 fans (variable speed) for RF modules 1 fan for each power supply
Noise	<55dB(A)
Power consumption	3200VA @ 2200W (AC Apparent)
Total Efficiency	>75%
RF Efficiency	>85%
Remote Control	WEB, SNMP, Parallel AI/O, Parallel Frequency Set, RS 232 - PC connection
Compliances	CE 99/05 R&TTE requirements

FREQUENCY		Digital Input	
Operating frequency range	FM 87.5 to 108 MHz	AES/EBU	XLR female connector, optical TOS Link
Setting	10kHz steps	Level	-20 to 0 dBfs
Generation	PLL; Direct to Channel (DPS)	Design Data	
Output frequency stability	± 1ppm from -5° +45°	Type	Solid state. DSP
Reference (internal)	VCTCXO 10 MHz	Pre -emphasis	Flat or 75 or 50 µs
Reference (external)	10MHz and 1pps ,(DSP only)	Audio frequency response	
Nominal deviation	± 75 KHz, (capability 150KHz)	Separation	± 0,2 dB (from 40 Hz to 15 KHz) (stereo); ± 0,4 dB (from 40 Hz to 100 KHz) (MPX)
Harmonics suppression	< - 85 dBc	Modulation Type	> 55 dB
Spurious Emission	< - 80 dBc	Meets CE 99/05 + R&TTE	
S/N RATIO (weighted)	> 80 dB (>84dB DSP)	Standard Compliance	
THD	<0,10%	Radio spectrum	ETS 302-018
VSWR	1,5:1 with auto foldback	EMC	ETS 301-489
RF Monitor	BNC connector R.F. - 70 dBc	Safety	EN 60950 - EN 60215
Mono MXP Operation		Temperature	
Mono/MPX Impedance	600 Ohm or 10 KOhm XLR female Connector	Operating range	0° to 45°C
Mono Level	-6 dBm + 12 dBm	Storage range	- 10° to 55°C
MPX Level	- 6 dBm +12 dBm	Maximum relative Humidity	90% non condensing
Audio Filter Response	> 45 dB (19 KHz to 100 KHz)	Max Operating Altitude	2500 mt. a.s.l.
THD	< 0,01% @400Hz	RDS Coder	
RDS and SCA Impedance	10 KOhm unbal., BNC	Type	Static and dynamic
Audio Presence Detector	adjustable time from front panel	Stereo Operation	
Stereo Operation		Left, and Right Impedance	
Left, and Right Impedance	600 Ohm bal. or 10 KOhm balanced XLR female	Left, Right Level	
Left, Right Level	- 6 to + 12	Stereo separation	
Stereo separation	> 50 dB	THD on Encoded channels	
THD on Encoded channels	< 0,01 %@400Hz	Suppression of 38 KHz	
Suppression of 38 KHz	> 50 dB	Spurious outside band	
Spurious outside band	According to ETSI specification	Pilot Frequency	
Pilot Frequency	19 KHz ± 1 Hz	Audio Presence Detector	
Audio Presence Detector	adjustable time from front panel		