

EMETTEUR FM COMPACT TSC LP 30W-50W-100W-300W-500W-1KW

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CARACTÉRISTIQUES PRINCIPALES

- ▶ Faible consommation en énergie électrique
- ▶ Puissance RF nominale 30- 50- 100- 300- 500- 1000watts
- ▶ Rapport signal bruit dans bande FM typ. -80 dB
- ▶ Séparation L&R stéréo codeur typ. 60 dB
- ▶ Distorsion audio extrêmement faible de 0,01%
- ▶ Large bande FM de 87,5 à 108 MHz
- ▶ Utilise la 6ème LD-mos génération VSWR 65: 1
- ▶ Grand écran LCD couleur avec écran tactile
- ▶ Alimentation AC 90-260 VAC (à découpage)
- ▶ Normes de fabrication CCIR , FCC , CE conforme
- ▶ Contrôle à distance par téléphone mobile
- ▶ Serveur web
- ▶ codeur stéréo digital intégré et commutable

OPTIONS

- ▶ Entrée digitale AES/EBU
- ▶ Codeur RDS
- ▶ Contrôle à distance via protocole SNMP
- ▶ Entrée streaming audio
- ▶ Modulateur digital



Écran tactile



Logiciel
ENERGY SAVING



Interface audio
complète



Contrôle à
distance

CARACTÉRISTIQUES TECHNIQUES



GENERAL

Power Output	30w, 50W (typ. 60W), 100W (typ. 110W), 500W (typ. 550W), 1000W (typ. 1100W) adjustable from front panel
RF Output Impedance	50 ohm
RF Output Connector	"N"(50-100-300W), "7/16"(500-1000W) type
Monitor RF	BNC connector
VSWR	1,5:1 WITH AUTOMATIC FOLDBACK
Frequency Range	87.5 ÷ 108.00 MHz
Frequency Stability	±1 ppm from -5 to 45°C
External Reference	10 MHz BNC connector back panel
Type of Modulation	Analog or digital (OPTION)
Off Lock Attenuation	≥ -80 dBc
Modulation Capability	±150 KHz
Limiter built in	Yes
Power Good Detector	adjustable from 20÷90% of the power
Audio Presence Detector	adjustable time from front panel
External AGC	Automatic, with fine ADJ back panel
Modulation Mode	Mono, Stereo, Multiplex, SCA, RDS, Aux
Preemphasis	Flat/50/75µs selectable from front panel
Asynchronous AM S/N Ratio	-60 dB
Synchronous AM S/N Ratio	-60 dB
RF Harmonics	Exceeds EBU/CCIR/FCC requirements
RF Spurious	Exceeds EBU/CCIR/FCC requirements

Mode Mono

Audio Input Impedance	600 ohm - 10 Kohm balanced
Audio Input Level	-6 to +12 dBm
Input Connector	XLR female
Audio Frequency Response	±0.1 dB, 20 Hz to 15 KHz
Total Harmonic Distortion + Noise	0.01% @ 400 Hz
Intermodulation Distortion	0.01%, 1 KHz/1.3 KHz, 1:1 ratio
Transient Intermodulation Distortion	0.01% 2.96KHz square wave and 14 KHz sine wave
Distortion	0.01% 2.96KHz square wave and 14 KHz sine wave
FM S/N Ratio	-80 dB below ±75 KHz dev.

Mode Stéréo

Audio Input Impedance	600 ohm - 10 Kohm balanced
Audio Input Level	-6 to +12 dBm
Input Connector	XLR female
Audio Frequency Response	±0.1 dB, 20 Hz to 15 KHz
Total Harmonic Distortion + Noise	0.01% @ 400 Hz
Intermodulation Distortion	0.01%, 1 KHz/1.3 KHz, 1:1 ratio
Transient Intermodulation Distortion	0.01% 2.96KHz square wave and 14 KHz sine wave
FM S/N Ratio	-80 dB below ±75 KHz dev.
Stereo Separation	20 Hz ÷ 15 KHz ≥ -60dB
Crosstalk attenuation	Main to Sub -70 dB 30 Hz to 15 KHz
38 KHz Suppression	≥ -85 dB
Pilot Frequency	19 KHz ± 1 Hz
Output Pilot	1 Vpp., BNC female

MULTIPLEX OPERATION

Composite Input Impedance	2 Kohm unbalanced
Composite Input Level	-6 to +12 dBm
Input Connector	BNC female
Composite Amplitude Response	±0.1 dB, 30 Hz to 100 KHz
Total Harmonic Distortion + Noise	0.01% @ 400 Hz
Intermodulation Distortion	0.01%, 1 KHz/1.3 KHz, 1:1 ratio
Transient Intermodulation Distortion	0.01% 2.96KHz square wave and 14 KHz sine wave
FM S/N Ratio	-80 dB below ±75 KHz deviation

AES/EBU OPERATION

Input Connector	XLR female, optical TOS-LINK
Input Impedance	110 ohm
Input Level	-20 to +0 dBfs
Data Format	S/PDF, AES/EBU, IEC958, EIAJCP340/1201
Sampling Frequency	from 32 to 96 KHz

SCA, RDS, AUX OPERATION

Input Impedance	≥ 2 Kohm
Input Level	-6 to +12 dBm
Frequency Response	± 0.1 dB, 50 KHz to 100 KHz
Input Connector	BNC female

AUXILIARY CONNECTIONS

CAN BUS/RS485	DB9 connector back panel
Telemetry Interface	connector DB25 back panel
LAN	RJ45 connector back panel
MPX OUT	connector BNC back panel

OPTIONS

AES/EBU -SPDIF
RDS/RBDS Programmable Coder via PC
SNMP
Audio IP

ELECTRICAL

AC Input Power	90÷260 VAC 50/60 HZ single phase
AC Apparent Power Consumption	80VA@30w,100VA @ 50W, 200VA @ 100W, 450VA @ 300W, 750VA @ 500W, 1400VA @ 1000W
Cos Ø	> 0.98
Cooling	Forced air
Acoustic noise	< -56 dBa @ 1 meter

ENVIRONMENTAL

Operating temperature	-5°C to +50°C
Max Operating Altitude	2000 mt
Relative Humidity Range	0 to 90%

PHYSICAL DIMENSION

Mounting	Standard 19" chassis 2 U rack
Size	W x 483 mm. D x 470 mm. H x 88 mm
Weight	~ 6,0 Kg. (30-100w), 15Kg. (300-500-1000W)