

## مشخصات فنی

### 1.1 FREQUENCY - POWER

Frequency range -----	87.5 to 108.0MHz
Frequency setting -----	10 KHz steps
Internal setting mode -----	by keys
External setting mode -----	by Optional remote control ( GSM-TCP/IP-RS232-RS485 )
Frequency stability -----	±500Hz/year
Frequency generation -----	PLL synthesizer
Modulation type -----	direct VCO frequency modulation
Nominal frequency deviation -----	±75KHz
RF output power -----	0 to 10-20-50-100-200
Power resolution setting -----	1-5W
Power control stability -----	< 0.2dB
Reverse output power control limit -----	1 to 30W
Harmonics emission -----	<-70dBc
Spurious emission -----	<-95dBc
Carrier reduction power ( carrier enable off ) -----	>70dBc

### **1.3 MODULATION CAPABILITY**

MONO (left or right)	-----	30Hz to 15KHz
STEREO (by internal stereo generator OPT)	-----	30Hz to 53KHz
MPX1 & MPX2 (opt) COMPOSITE (MONO or STEREO +RDS+ SCA)	-----	30Hz to 75KHz
AES-EBU up to 192Khz or IP Audio (opt)	-----	30Hz to 53KHz
SCA (opt)	-----	30Hz to 100KHz
RDS Ext	-----	30Hz to 100KHz
RDS Int (by internal RDS generator OPT)	-----	57KHz

### **1.4 CHARACTERISTICS IN MPX**

Signal input	-----	MPX Unbalanced
Input impedance	-----	600Ω or 10kΩ
Input level	-----	0/+6/+12/dBm or Variable input level capability
Audio frequency response ( 50Hz to 57KHz )	-----	±0.5dB
Total Harmonic Distortion THD	-----	<0.02%
Signal to noise referred at deviation of 75KHz	-----	>80dB

### **1.5 CHARACTERISTICS IN MONO**

Signal input	-----	Left or Right
Input impedance	-----	600Ω (balanced) or 10kΩ
Unbalance rejection	-----	>40dB
Input level	-----	0/+6/+12/dBm or Variable input level capability
Pre-emphasis	-----	std.50μs ( opt 75uS )

Audio frequency response ( 50Hz to 15KHz) -----±0.5dB  
Total Harmonic Distortion THD ----- <0.02%  
Signal to noise referred at deviation of 75KHz----->82dB

## 1.6 CHARACTERISTICS IN STEREO

Signal inputs ----- Left & Right  
Input impedance----- 600Ω (balanced) or 10kΩ  
Unbalance rejection ----->40dB  
Input level -----0/+6/+12/dBm or Variable input level capability  
Pre-emphasis -----std.50μs ( opt 75μs )  
Audio frequency response (30Hz to 15KHz) ----- <0.25dB  
Cross-talk between left and right channel ----->50dB  
Total Harmonic Distortion THD ----- <0.1%  
Signal to noise referred at deviation of 75KHz----->77dB  
Suppression of 38KHz ----->70dB  
Spurious suppression outside band-----in according to ETS 300-384  
Pilot reference for RDS encoder (19 KHz out) ----- 1Vpp