

FM Radio Analog to Digital Modulator

Model:TSC368



87MHz ~ 108 MHz

Professional FM radio modulator with CD-quality broadcasting. DSP (Digital Signal processor) + DDS (Direct Digital Synthesis frequency) executes stereo coding and FM modulating. Supporting AES/EBU standard digital audio input.



Key features

- Adopting new digital signal process (DSP) technology.
- Direct digital synthesis frequency (DDS) technology.
- Advanced MCU control system.
- Columnar dynamic display audio signal.
- Perfect audio effect of CD sound.
- Supporting AES/EBU standard digital audio input.
- The standard frequency of RF output is 87.00-108MHz with the step of 10kHz.
- Free customization within the RF output frequency range.
- 122*32 lattice blue screen LCD synchronously displays the work parameters of the modulator.
- RS-232/485 serial communication remote control and telemetry.
- 1U,19-inch standard chassis structure.

Specifications

Items	Specifications
Power Voltage	AC110-220V±10%
Power Consumption	<25W
RF Frequency Range	87~108MHz,Step 10KHz
Output Power	-8dBm~+12dBm
Output Impedance	50Ω
RF Output Connector	BNF(Female)
Carrier Frequency Precision	±200Hz
Harmonic Suppression	≥65dB
Parasitic Amplitude Modulation	≤-50dB
Modulation frequency deviation	±75kHz(100%modulation)
Audio pre-emphasis	0μs,50μs,75μs
Level difference of right and left	<0.1dB(100%modulation)
Signal-to-Noise	70dB(type),1kHz,100%modulation
Audio response	±0.1dB,10Hz~15000Hz
Distortion	<0.1%,10Hz~15000Hz
Stereo Separation	60dB(type),30Hz~15000Hz
Pilot Frequency	19kHz±1Hz
Pilot Frequency Modulation	8%~10%
Analog Audio Input Impedance	600Ω,balance
Analog Audio Input Level	-12dBm~+8dBm,step1dBm
Digital Audio Input Impedance	110Ω,balance
Digital Audio Input Level	0.2~10Vpp
Digital Audio Sample Rate	30kHz~96kHz
Weight	3.8KG
Size	485*305*44mm