

ZHC358D Digital FM Demodulator



Introduction:

This digital FM demodulator is a professional FM broadcasting radio receiver. It is the innovational FM radio demodulator which has a digital audio output AES/EBU. It can be used with a digital FM transmitter or a digital FM modulator to achieve high-quality FM transposer. It can also be used for high-quality receiving and remote monitoring of the FM radio signal.

Overview

ZHC358D FM demodulator is a high-quality broadcasting radio receiver. It has sensitivity for receive. The output of audio signal can be displayed on LCD. It has digital audio AES/EBU output and standard communication interface for telemetry. It can be used for radio broadcast transposer , multi-channel FM signal monitoring and any other occasions where multi-channel and high-quality is required. This product uses the latest DSP processing receiver IC, while high-quality FM demodulation, it can detect and display each receiving channel's field strength values, the RF signal SNR, stereo status, output audio level etc. at the same time. These parameters can be read by other hosts through the communication interface.

Features

- Built-in receiver amplifier circuit improves the receiving sensitivity.
- It can receive well in serious RF noise
- Output audio quality can reach professional broadcast level
- With digital audio AES/EBU output

- Output volume can be adjusted electronically or can be mute
- Display of reception field strength, SNR, stereo
- Receiving frequency can be remotely adjusted
- RS232 telemetry interface

Specifications

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| 1.Receiving frequency range | 87MHz~108MHz |
| 2.Receiving sensitivity | <1uV (0dBuV) |
| 3.Receiver SNR | >3dB |
| 4.De-emphasis | 50uS |
| 5.Analog audio output impedance (balanced XLR) | 600 Ω |
| 6.Digital audio output impedance (balanced XLR) | 110 Ω |
| 7.Volume Gain | -20dB~+6dB |
| 8.Stereo Separation | \geq 45 dB(type.50dB) |
| 9.Audio SNR | \geq 65dB |
| 10.Audio frequency response | \leq 0.3dB |
| 11.Distortion(stereo) | \leq 0.2% |
| 12.Field Strength, SNR, the Volume level can be displayed on LCD | |