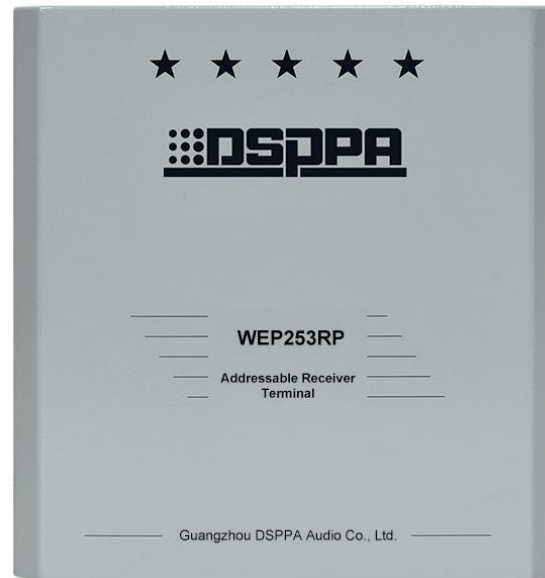# WEP253RP

Emergency Broadcast Multi-mode Terminal

Description

WEP253RP is an emergency broadcast multi-mode terminal developed specifically for PA system., which integrates with the function of the FM receiving, network / TS audio decoding, signal amplification and supports wireless transmission.

The device uses DSP digital audio processing technology as the core and output high-fidelity audio signal. With RDS subcarrier decoding, high reliability signal encryption technology to prevent illegal insertion of radio; built-in gas-discharge tube, prevent the equipment from lightning attacks and guarantee the safety of the PA system effectively.

The device is suitable for urban, rural emergency PA system; outdoor or indoor wireless sound reinforcement of campus, factory, park, square, park and other places. With DSPPA's wireless transmitter, multi-functional control host can form a complete PA system.

Features

- All-weather design, selection of waterproof units, suitable for indoor and outdoor, long life, high sensitivity, clear and bright voice.
- Wireless addressable receiving, RDS subcarrier decoding, high reliability encryption means to ensure broadcast security.
- Built-in gas-discharge tube which can absorb high voltage and high current to protect device from lightning attacks, with high reliability.
- DSP core plus ARM architecture circuit , high sound quality output.
- Support the remote timing and digital volume control of the remote upper host, to solve the problem that mechanical potentiometer will fail for a long time.

- With DSPPA special control protocol, ultra-high sensitivity to receive, even in the weak signal can still demodulate the control signal accurately.
- Can be customized for fixed frequency reception or automatic tracking transmitter frequency reception, super adaptability.
- Built-in high-fidelity amplifier circuit, the protection function is complete.
- With working status indicator, easy to determine the device failure.
- With reserved USB/ Network communication port, easy to set parameter and upgrade and maintenance.
- Support solar energy, wind energy, general electricity, line power supply and other energy supply methods (according to customer engineering).
- With no signal automatically standby and line output mute function, low power operation, saving energy, extension device life.
- Support platform OTA remote upgrade.

Specifications

Model		WEP253RP
Function Modules	Parameters	Specifications
Performance	Receive Frequency	76-108MHz
	Frequency Response	20Hz-15kHz
	SNR	≥56dB
	FM RF Signal Input Level	2-100dBuV
	Data Demodulation	57kHz, RDS encoding
	Audio Power	50W
	Frequency Response	40Hz-15kHz
	SNR	≥65dB
	Harmonic Distortion	≤1%(1KHz)
	One-Way IP Input	100/1000Mbps, TCP/UDP protocol
	One-Way USB Input	USB port, for external 4G module
Network Audio	Decoding or Encoding	MPEG-1 Layer 2
	Sampling Rate	48KHz
	Sampling Precision	24-bit
	Bit Rate	64Kbps
	Effective Frequency Range	20Hz ~ 20kHz
Power	Standby Power Consumption	≤0.5W
	Full Load Power Consumption	≤60W
	Supply Voltage and Current	AC100V-220V/DC24V-26V Input
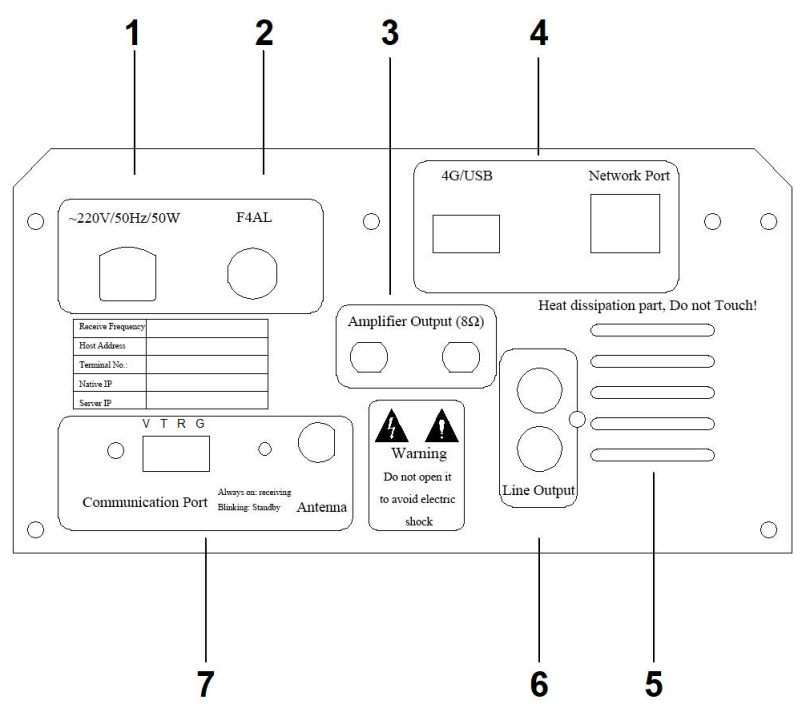
1. AC220V power input cable

2. AC220V power fuse (If the power fuse is blown, please replace it with a fuse of the same size; if it blows continuously, there is a fault inside the machine. Please remove the fault before replacing the fuse.)

3. Amplifier output port (Connecting constant resistance speakers)

4. Network port: Connect 4G/USB network port

5. Cooling ventilation window (In any case, do not block the ventilation window.)

6. Audio line output interface (Connect the amplifier)

7. (1) Antenna interface

Connect the antenna for wireless reception; connect the coaxial cable for wired reception.

(2) Working status indicator of the terminal

If the indicator light is always on, it means that the terminal is receiving signals; if the indicator light is flashing, it means that the terminal is in the standby state.