

## POE6401 POE Powered Network Display Terminal



### *Features*

- Dual Network interface design, able to work across network segments
- Able to connect to anywhere the network reaches
- Built in MP3 player, USB port, and SD slot, for local program playing
- Support up to 48kHz sampling frequency, and 16bit digital audio code stream decoding
- Built in 2\*10w or 1\*20w Hi-Fi digital amplifier, with low power consumption setting
- Able to play the background music, emergency broadcast, warning signal from system center
- 1 aux input, 1 aux output, 2 MIC input, 1 EMC output, and 1 short circuit output
- Volume and play status of the zone can be controlled by this terminal
- LED indicator for signal status, and digital display of work condition and information change
- Infrared remote control available
- POE power supply, easy for installation and cable laying

## Description

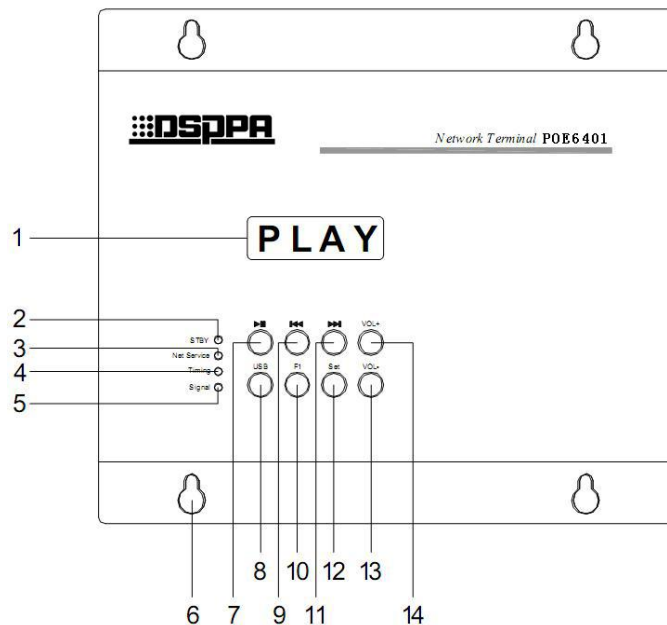
POE6401 Network PA system terminal is a POE powered network full digital signal processor based on TCP/IP protocol. With dual network interface design, it can be connect to anywhere the network reaches. Under intelligent control of the system center, this terminal serves to output the long distance audio data flow. Built in MP3 player, USB port, and SD slot, for local program playing. With 1 aux input to connect with other audio source equipments; 1 aux audio output for connection with other amplifiers for power extension; and 1 MIC input for local Paging.

## Specification

Indicator item		Indicator
AUX IN	Input sensitivity	1000 <b>mV</b>
	Frequency response	20Hz-20kHz
	Distortion	0.1%
	Noise	1 <b>mV</b>
	Signal-to-noise ratio	80 <b>dB</b>
AUX OUT	Output sensitivity	1000 <b>mV</b>
	Frequency response	2Hz-26kHz
	Distortion	0.05%
	Noise	0.12 <b>mV</b>
	Signal-to-noise ratio	77 <b>dB</b>
Maximum output power of the built-in power amplifier	Independent channel mode	10W/4Ω
Maximum harmonic distortion of the built-in power amplifier		0.3%
MIC microphone input	Input sensitivity	10 <b>mV</b>
	Frequency response	20Hz-20kHz
	Distortion	0.5%
	Noise	2 <b>mV</b>
	Signal-to-noise ratio	75 <b>dB</b>
USB/SD /NET Play MP3	Output sensitivity	7.8 <b>V</b>
	Frequency response	10Hz-20kHz
	Distortion	0.05%
	Noise	1 <b>mV</b>
	Signal-to-noise ratio	80 <b>dB</b>
Capacity of external U disk supported		32GB

Range of power supply voltage	45-256V/50Hz
OVERCURRENT, overheat, over-voltage and under-voltage protection	Conforming to
Package size (L×W×H mm)	270×210×110
Machine size (L×W×H mm)	190×195×50
Net weight	1.45kg

## 2.1 Introduction of the front panel



### 1 Digital display screen and infrared remote control receiving window

The digital display screen indicates the working state and network information state of the machine. The infrared remote controller is inserted at the upper right corner of the display screen, and the machine state can be controlled with the infrared remote control.

### 2 STBY

The standby function indicator lamp is equal to the mute function, and the network alarm and emergency signal can open it. That is to say, the alarm and emergency signal can cancel the mute state.

### 3 Net Service

When the machine and the host machine are successfully connected through the network, the indicator lamp is on.

### 4 Timing

The terminal can be separated from the host machine to implement the timing point edited. When the terminal can be separated from the host machine to implement the timing point, the indicator lamp is on.

### 5 Signals

When the signal is output from the terminal power amplifier, the indicator lamp is on. When the power amplifier volume is gradually increased, the indicator lamp is

brightened gradually; when the volume is gradually decreased, the indicator lamp is darkened gradually.

**6 Screw fixing hole**

The terminal can be installed at the positions similar to the wall. There are 4 fixed screw holes on the machine, and the machine is fixed on the wall surface with the with-machine screws during installation.

**7 Play / pause key**

When the local MP3 program is played, the key is used to conduct play / pause operation; during address settings, the key is used to save setting operation results.

**8 USB key**

U disk play / stop button; press the key to quit setting state during address setting operation.

**9 <<<Key**

Play mode: select previous track play function.

Set IP mode: move a screen leftwards / move a bit leftwards, select viewed / set parameter

**10 F1 key**

It is used during volume adjustment, and it is switched among three audio sources of

auxiliary input, microphone input and MP3 play volume.

**11 >>>Key**

Play mode: select next track play function.

Set IP mode: move a screen rightwards / move a bit rightwards, select viewed / set parameter

**12 Set**

Long press the key to enter IP address view state, press it again, and enter IP setting state.

**13 VOL-key**

Play mode: volume down function.

View IP mode: switch and select the viewed parameters.

Set IP mode: parameter plus-minus function.

**14 VOL+key**

Play mode: volume up function.

View IP mode: switch and select the viewed parameters.

Set IP mode: parameter plus-minus function.

**2.2 Introduction of the side panel**

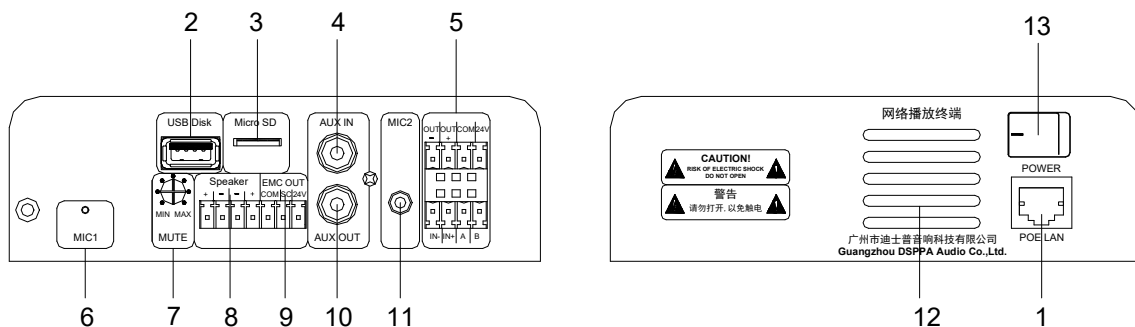


Figure (2) Side

### **1 POE LAN**

Connect 48V output, support AT mode, POE output port power outputs above 25.5W POE switch

### **2 USB Disk**

Insert U disk at the interface or connect the portable hard disk and other memory device, and provide the program source for the built-in MP3 player.

### **3 Micro SD**

Insert the SD card saved with host timing point at the socket. When the terminal is disconnected, the host machine plays the audio source at the definite time.

### **4 Auxiliary input interface (AUX IN)**

Connect the audio source device (such as DVD) to expand the program source for the machine.

### **5 LED matrix screen connecting port (not opened to the machine)**

### **6 MIC1 pickup window (not opened to the machine)**

The built-in microphone pickup window can directly release audio broadcasting to the window (not opened).

### **7 Microphone silent adjustment**

MIC1 silent depth adjusting knob.

### **8 Speaker**

2×10W digital power amplifier is built in the machine (note: please adopt two-way simultaneous output with caution due to POE switch supply power restrictions). The output port power is 10W. They are connected with two constant resistance (4Ω) sound box.

### **9 EMC forced plug play output**

The signal output from the interface is controlled by the host machine.

### **10 Auxiliary output interface (AUX OUT)**

It is connected with other power amplifiers, so as to expand the terminal power.

### **11 MIC2 interface**

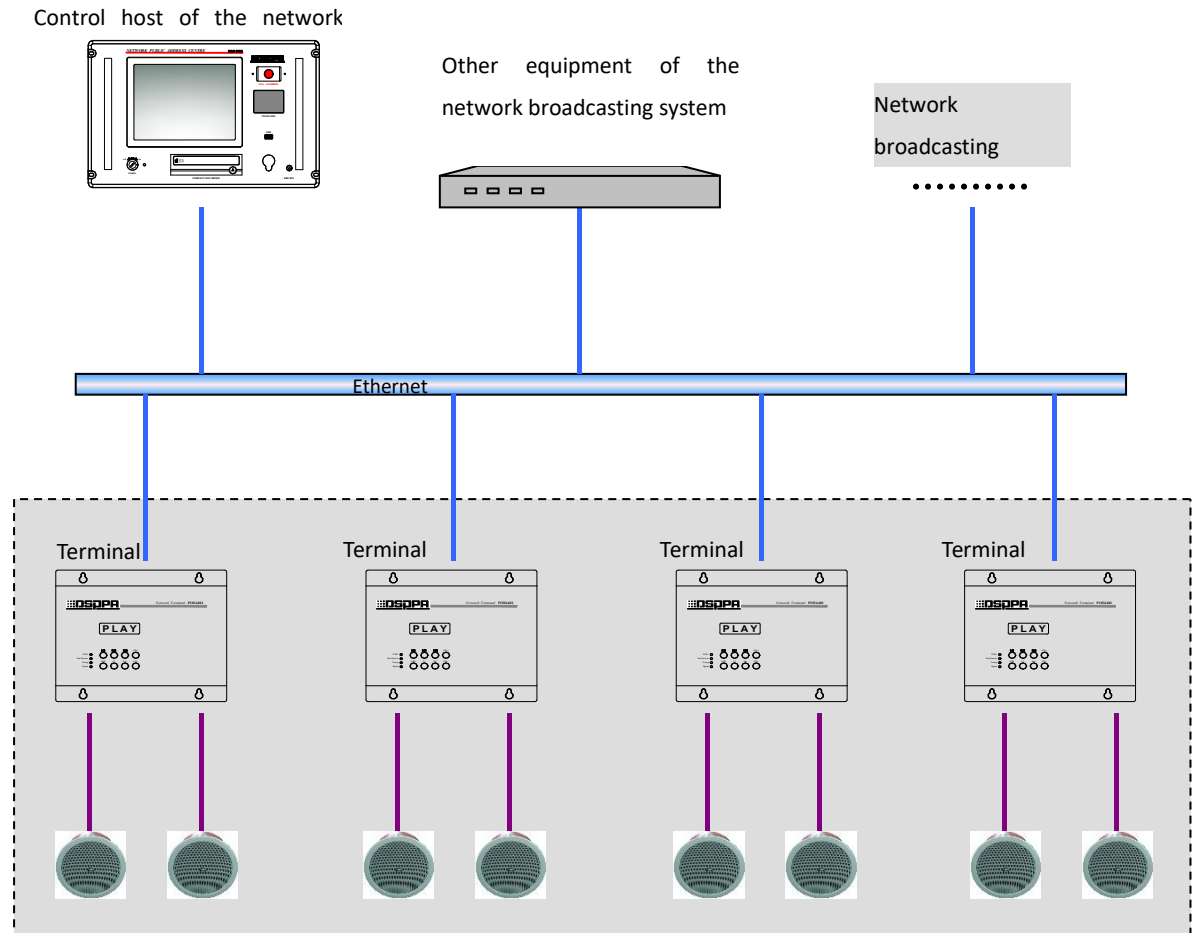
Connect the microphone to realize local paging, site talking and other functions. (Not opened to the machine)

### **12 Power amplifier cooling window**

### **13 Power (POWER)**

Press "I" position to turn on the power supply and bounce "I" position to turn off the power supply.

### 3.1 Schematic diagram of application of POE6401 in the system



Note:

1. Only the schematic description for connection of rough application of POE6401 terminal is made in the above figure. For connection of the whole system, please refer to operation instructions for the networked control host.
2. It is illustrated by examples in the above figure. For specific connections, please refer to the schematic diagram of system connection.
3. POE6401 terminal must be connected in the system through the network switch, and the corresponding address shall be arranged for connection with the host machine.

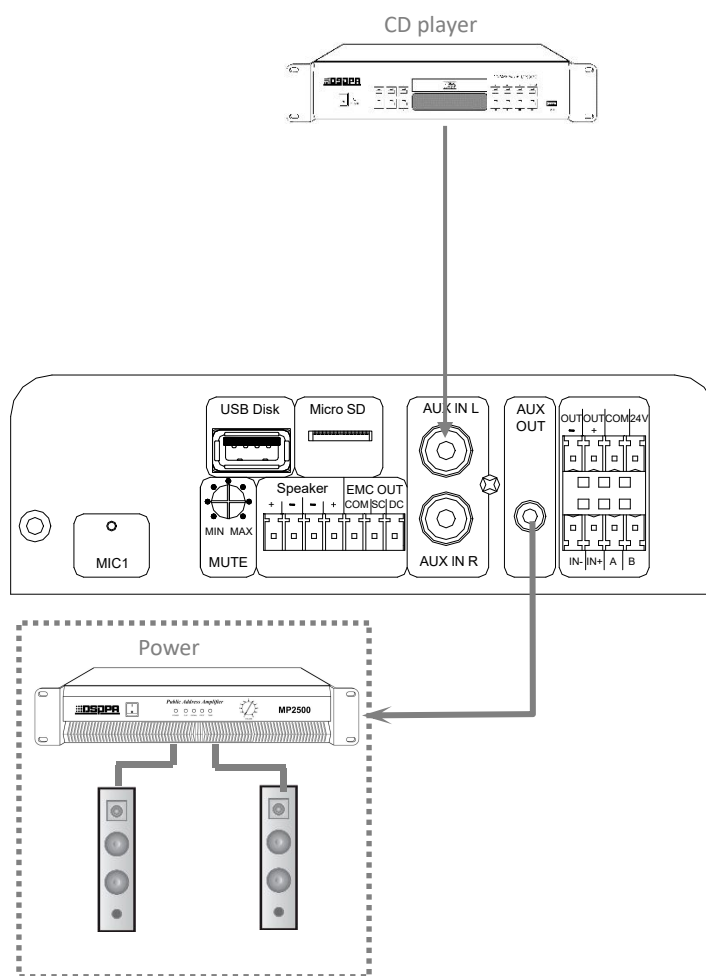
### 3.2 Schematic diagram of connection of interface of POE6401

#### terminal

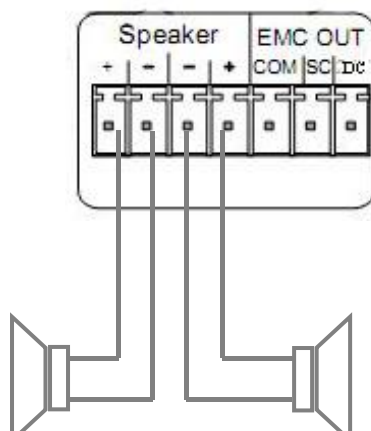
Except for MP3 player and the network audio source carried in the machine, a way auxiliary input and a way auxiliary output are also arranged to connect other audio sources and power amplifiers. The customized design can satisfy demands for high power and multiple audio sources on terminal site. The peripheral audio source and other power amplifiers may not be connected in the

application without such individual demands. The MP3 player and network audio stream carried in the machine can realize sound amplification at most public places.

The schematic diagram of interface connection of the machine is shown in the following figure:



The power amplifier is 2×10W output (note: please adopt two-way simultaneous output with caution due to POE switch supply power restrictions), which is as follows:



Connect two 4Ω, 25W constant resistance sound box