# MAG6401

# 2×25W (4Ω)/ 1×50W (8Ω) Network Amplifier



## Description

MAG6401 network terminal is a network all-digital analog-digital conversion signal processor based on TCP/IP transmission protocol. With dual network redundancy design, it can be mounted at any place with access to network. The machine can output the remote audio data stream as the audio signal with intelligent control of the host; and has a built-in MP3, USB interface and SD card slot. It can play the MP3 program when the network audio stream signal is not played, and can execute timing points independently when separated from the host. Also, it is provided with one-channel auxiliary audio input interface for other audio source devices (like DVD), and one-channel auxiliary audio output interface for other amplifiers to extend the power, and a microphone interface for local paging.

## Features

- With dual network redundancy design, it can work across the network segment.
- Can be mounted to any place with access to network.
- With built-in MP3 player, USB interface and SD card slot for playing local program.
- Can execute timing points independently when separated from the host.
- Support maximum 48kHz sampling rate 16-bit digital audio stream decoding.
- Built-in 2×25W (4Ω) or 1×50W (8Ω) high-fidelity digital amplifier, with low power consumption.
- Can play the background musics, emergency paging and alarm signals from the system host.
- With 1 AUX IN, 1 AUX OUT, 2 MIC IN, 1 EMC OUT and 1-channel short circuit output.

- Controllable local output volume and local play status.
- With LED indicator for signal status, and digital display for working status and information changes.
- Support remote control via the infrared remote controller.
- Can set the priority of network audio, local audio and local microphone audio through the network.

# Specifications

| Model | | MAG6401 |
|---|---|---|
| AUX IN | Input Sensitivity | 350mV±50mV |
| | Frequency Response | 20Hz-16kHz(±3dB) |
| | Distortion | ≤0.5% |
| | Noise | 1.7mV |
| | SNR | ≥77 dB |
| AUX OUT | Output Sensitivity | 1000mV±100mV |
| | Frequency Response | 20Hz-20KHz(±3dB) |
| | Distortion | ≤0.5% |
| | Noise | 0.12mV |
| | SNR | ≥78 dB |
| Maximum Output Power of the Built-in Amplifier | Independent Channel Mode | 25W/4Ω |
| | BTL Mode | 50W/8Ω |
| Maximum Harmonic Distortion of the Built-in Amplifier | | ≤0.7% |
| MIC IN | Input Sensitivity | 5mV±1mV |
| | Frequency Response | 20Hz-16kHz(±3dB) |
| | Distortion | ≤0.7% |
| | Noise | 1.7mV |
| | SNR | ≥77 dB |
| USB/SD /NET/MP3 | Output Sensitivity | 11V±1V |
| | Frequency Response | 20Hz-16kHz(±3dB) |
| | Distortion | ≤0.6% |
| | Noise | 1.5mV |
| | SNR | ≥77dB |
| External USB Capacity Supported | | 32GB |
| Power Supply | | AC220V/50Hz |
| Over Current, Overheat, Over Voltage and Under Voltage Protection | | Satisfied |
| Package Dimension (L×W×H mm) | | 330×270×125 |
| Machine Dimension (L×W×H mm) | | 222×195×49.5 |
| Net Weight | | 1.45kg |
| Gross Weight | | 2.145kg |
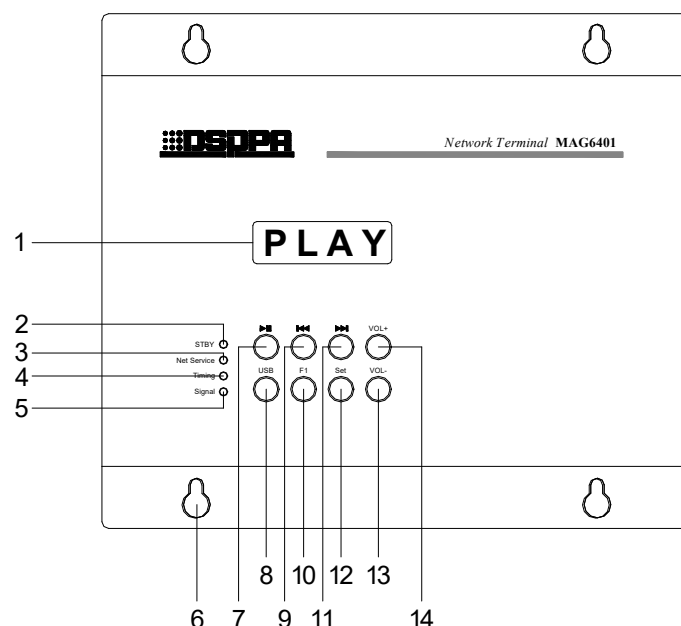
**1  Digital Display Screen and Remote Control Receiving Window**

The digital display screen shows the working status and network information of the machine. As an infrared remote controller is embedded in the upper right corner of the display screen, the machine status can be controlled with the infrared remote controller.

**2  2. Standby LED (STBY)**

Standby LED (The LED will be on in standby status). The standby function is equivalent to mute function, and the network alarm and emergency signal can turn it on. That is, the alarm and emergency signal can cancel the mute state.

**3  Network LED (Net Service)**

The LED will be on when the machine and host are successfully connected via the network.

**4  Timing Point LED (Timing)**

The terminal can be separated from the host to execute the edited timing point on the host. This LED will be on when the terminal can execute the timing point when separated from the host.

**5  Amplifier Output Level LED (Signal)**

The LED will be on when the terminal amplifier has a signal output. When the volume of the amplifier gradually increases, the LED will turn brighter; when the volume decreases, the LED will turn darker.

**6  Mounting Hole**

The terminal can be mounted on the wall or the same. There are 4 mounting holes on the machine. During installation, the machine can be mounted on the wall with screws provided.

**Play/Pause Button**

When playing local MP3 programs, use this button to conduct play/pause operation; when performing address setting operation, use this button to save the setting results.

**USB Button**

USB play/stop button; press this button to exit the setting state during the address setting operation.

**◄◄ Button**

USB play mode: Select the previous song.

IP settings mode: Move one screen / one bit to the left, to select the parameter to be viewed/set.

**0  F1 Button**

Used when adjusting the volume. Switch among three audio sources: AUX IN, MIC2 and MP3.

**1  ►►I Button**

USB play mode: Select the next song.

IP settings mode: Move one screen / one bit to the right, to select the parameter to be viewed/set.

**2  Local Settings (Set)**

Long press the button to enter the IP address viewing state, and press it again to enter the IP settings/modification state.
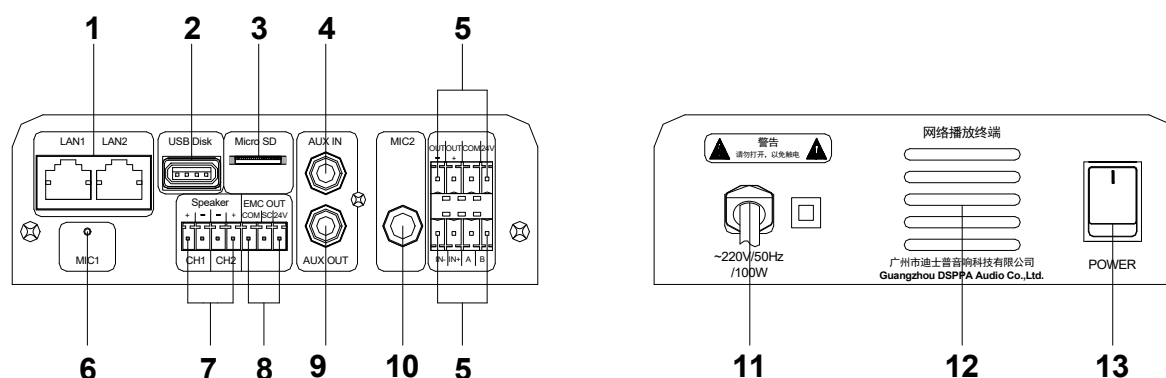
**3  VOL- Button**

Play mode: Volume down.

IP viewing mode: Switch the parameters to be viewed.

IP setting mode: Parameters Plus and Minus.

**4  VOL+ Button**

Play mode: Volume down.

IP viewing mode: Switch the parameters to be

viewed.

IP setting mode: Parameters Plus and Minus.



**1    Network Interface (LAN1/LAN2)**

Dual Network design, support hand-in-hand connection, connect with Network POE.

**2    USB Interface (USB Disk)**

Insert a USB or a mobile hard disk or other memory devices with MP3 programs into this interface to provide a program source for the built-in MP3 player.

**3    SD Card Slot (Micro SD)**

Insert a SD card with the timing point of the host into the slot. When the terminal is offline, it can play the audio for the host regularly.

**4    AUX IN**

Connect audio source devices (like DVD), to extend the program source for the machine.

**5    Extension Interface**

For extending or customizing other functions. It can be extended to MAG6465/MAG6566 SOS, Dual Intercom Extension Controller, MAG6402 Network PA System On-Demand Terminal, MAG6405 GPS Calibration Module, MAG6419 IP Network Terminal with Built-in Amplifier, MAG6420 IP Control Panel with Bluetooth & MIC, MAG6420II-C Network Control Panel with Wireless Microphone. This terminal provides DC voltage power supply for the connected equipment. The wiring method needs to be connected with the equipment one by one according to the requirements. For the connection method, please refer to the instruction manual of the connecting equipment.

**6    MIC1 Pickup Window**

The built-in microphone pickup window. Speak to the window to release voice broadcast directly.

**7    Amplifier Output CH1/ CH2 (Speaker)**

The machine has a built-in 2×25W digital amplifier. As the power of the output port is 25W, it is supposed to connect two constant resistance (4Ω) speakers respectively. It can also be bridged into single-channel mode of 50W to connect a 8Ω speaker. Please refer to the page 7 for connection methods.

**8    EMC Override Output**

The output signal of the interface is controlled by the host.

**9    AUX OUT**

Connect other amplifiers to extend the power of the terminal.

**10  MIC2 Interface**

Connect the microphone to realize local paging or site speech.

**11  AC220V Power Cord**

Provide working power for the machine.

**12  Amplifier Cooling Window**

**13  POWER**

Press "**I**" to turn it on, and press the other side of "**I**" button to turn it off.