



Prestel DSP-6464M Digital Audio Information Processor User Manual

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Prestel DSP-6464M Digital Audio Information Processor



Product Information

The Digital Audio Information Processor DSP-6464M is a versatile audio processing device that offers various features and capabilities. It is designed to enhance audio quality and provide advanced audio management.

Product Features

- **Channel Capacity:** 64×64
- Network Channel Capability
- **Audio L/O Capability:** 8 audio L/O card slots

- **Multi-track Player Capability:** 16 tracks
- **Media Storage Capacity:** 64GB
- Configure the Audio L/O Card

Audio L/O Cards

- **DA-AI4:** 4-channel microphone/line input card
- **DA-AO4:** 4-channel line output card
- **DA-EI4:** 4-channel AEC (Echo Cancellation Cartridge/Line Input Card)
- **DA-USB2:** 2×2 USB sound card
- **DA-VoIP4:** 4-channel IP voice card

Technical Specifications

- **Signal-to-Noise Ratio:** >118dB
- **Frequency Response:** 20Hz~20kHz
- **Impedance:** 5.5kΩ

Product Usage Instructions

To use the Digital Audio Information Processor DSP-6464M, follow the steps below

1. Ensure that the power source is connected and the device is turned on.
2. Connect the required audio input and output devices to the corresponding slots on the audio L/O card.
3. If additional audio capabilities are needed, insert the desired audio L/O card into one of the available slots.
4. If using the DA-AI4 card, connect the microphone or line input sources to the respective channels.
5. If using the DA-AO4 card, connect the line output devices to the respective channels.
6. If using the DA-EI4 card, configure the AEC settings according to your requirements.
7. If using the DA-USB2 card, connect the USB sound sources and configure the settings if necessary.
8. If using the DA-VoIP4 card, connect the IP voice sources and configure the settings accordingly.
9. Ensure that all connections are secure and properly configured.
10. Adjust the volume levels and other audio settings as desired.
11. The Digital Audio Information Processor DSP-6464M is now ready for use.

Product Features

- Self developed
- **Network channel:** 64×64, mega network transmission, network transmission backup;
- **AEC:** support custom addition of independent AEC modules;
- Active/Standby mode;
- **Player:** multi-channel audio player, 64G memory, playback format WAV, MP3, support timed playback;
- Graphical user interface can be edited according to needs, supporting software, web, and mobile control;
- Built-in Lua script, providing flexible expansion and customization functions; Dual power supply redundancy (AC/DC).

Introduction

- DSP-6464M next-generation intelligent digital audio processing server uses two processing chips with a main frequency of 1GHz, which is the core device of the thermal computing power system platform. The thermal computing system platform is based on the real-time Linux operating system, through independent research and development to achieve better localization functions, drag-and-drop module with a full-English operation interface, with diversified data processing capabilities, relying on the digital network environment to build for a variety of large-scale network audio application scenarios.
- The server has network backup and dual-host backup functions, the backup mechanism is set by intelligent algorithms, to realize automatic backup, the main and subordinate server only need to ensure the exact same configuration, it can achieve mirror backup through the system mechanism, based on the heartbeat signal and "static" and "moving" which is the perfect combination of physical backup and logical backup, to achieve node without vulnerabilities, uninterrupted system operation, and thus to ensure the security of the system.
- The server contains 8 channels of 300ms AEC input channels, and also has 8 card slots that can be equipped with different types of audio cards, 4-channel analog input cards, 4-channel analog input cards, 4-channel AEC cards, 2-channel/4-channel USB sound cards, etc., to achieve full signal compatibility. A maximum of 32 analog channels are supported locally. Both integrated and independent channels offer extremely high hardware quality, including frequency response, dynamic range and total harmonic distortion. The server supports 64×64 network transmission, the host supports custom board configuration, and can be arbitrarily equipped with input, output card and AEC card, and the openness of the system and server is diversified to complete the use scenarios that meet user needs.
- The system has a full-English operation interface, the control operation interface is simple and intuitive; in the control software, through simple mouse operation, you can complete the entire audio system parameters, plan setting and call. The graphical control interface is one of the core of this system, and the signal is on spot and can be achieved by installing software on the computer.

Channel Capacity

- Network channel capability 64×64
- Audio I/O capability 8 audio I/O card slots
- * Multi-track player capability 16track
- Media storage capacity 64G
- **Configure the audio I/O card DA-AI4** : 4-channel microphone/line input card
- **DA-AO4** : 4-channel line output card
- **DA-EI4**: 4-channel AEC (Echo Cancellation Cartridge/Line Input Card DA-USB2:2x2USB sound card
- **DA-VoIP4**: 4-channel IP voice card
- Dynamic range 118dB 20Hz~20kHz 5.5kQ
- Frequency Response (± 0.2 dB) <-112dB
- Input impedance <0.002%
- Channel crosstalk > 91dBu
- Total Harmonic Distortion(THD+N) Common-mode rejection ratio (@0dBu) Maximum input level (@1 % distortion)


Control and indicator lights

- Front panel control Touch-based information control buttons Power Indicator
- Front panel LEDs Status Indicator
- Information screen 3.12 inch flip display

Control and indicator lights

- RS232/485 6Pin 3.81 mm Phoenix
- GPIO 16Pin 3.81 mm Phoenix
- Dante Primary RJ45 1000Mbps
- Dante Secondary RJ45 1000Mbps
- Network control port PC software connects devices or controls communication
- AC mains power IEC connector 24VDC 2A 2pin 5.81 mm Phoenix
- DC backup power supply 110VAC- 240VAC ,50~60 Hz
- Voltage 4A maximum @100VAC(actual current depends on
- Electricity configuration conditions such as I/O slot connection, media
- Working temperature range memory configuration,DSP configuration, and network
- BTU/h configuration) 0~45°C
- Humidity 600 (Estimated value under load)
- Safety Certificate 85% relative maximum humidityc
- Product Size(W×HXD) CC CE RoHS FCC
- Packaging Size 483×88×364mm
- Weight 618×153×473mm 10KG

Documents / Resources

	Prestel DSP-6464M Digital Audio Information Processor [pdf] User Manual DSP-6464M Digital Audio Information Processor, DSP-6464M, Digital Audio Information Proces sor, Audio Information Processor, Information Processor, Processor
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