

User's Manual Prestel

Digital Audio Information Processor

DSP-6464M



Specifications are subject to be changed without notice.



Product Features

- Self developed
- Network channel: 64x64, 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 64x64 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	64x64
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-VolP4: 4-channel IP voice card
Dynamic range	>118dB
Frequency Response (±0.2dB)	20Hz~20kHz
Input impedance	5.5kΩ
Channel crosstalk	<-112dB
Total Harmonic Distortion(THD+N)	<0.002%
Common-mode rejection ratio (@0dBu)	>91dBu
Maximum input level (@1 % distortion)	+22dBu

Control and indicator lights

Front panel control	Touch-based information control buttons
Front panel LEDs	Power Indicator 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
DC backup power supply	24VDC 2A 2pin 5.81 mm Phoenix
Voltage	110VAC- 240VAC ,50~60 Hz
Electricity	4A maximum @100VAC(actual current depends on configuration conditions such as I/O slot connection, media memory configuration,DSP configuration, and network configuration)
Working temperature range	0~45°C
BTU/h	600 (Estimated value under load)
Humidity	85% relative maximum humidity
Safety Certificate	CC CE RoHS FCC
Product Size(W×H×D)	483×88×364mm
Packaging Size	618×153×473mm
Weight	10KG