Digital Audio Central Processing System
MBP500

▶ Feature:

1. The system supports multi-level hot backup, including: host, network, input and output interface box and power amplifier PC software is a complete integrated platform, including all components of the entire audio system from audio input to speaker output, which can realize signal routing, audio processing, system control and monitoring functions, and inherits FionTu's well-known high-quality sound and ultra-high reliability

2. The processor host is the core of the entire system, and FT-AIM16 and call station are audio access and output devices, usually installed in places with audio input and output The processor host can transmit audio signals to and from the FT-AIM16 interface box and call station, and perform audio signal processing and all control functions internally All control devices, such as TSC control screens or other third-party control interfaces are managed by the processor host Calling presets, logic control and script command execution are also completed in the processor host

3. MBP500 represents the second generation of enterprise-level products of PC software systems. Thanks to the Intel hardware platform, its hardware development cycle is faster and it has achieved more than 2 times the original processing power at almost no additional cost The new generation of MBP500 uses a pair of the latest Xeon 4-core processors and server-level cooling system, which can provide 256x256 low-latency network audio channels and 96 AEC processing channels. In addition, the machine is equipped with a large low-speed silent fan to enhance internal air circulation cooling, as well as a field-replaceable modular power supply

4. The PC software system can provide simple or complex system control functions according to the needs of system applications. It is easy to implement some advanced control functions by simply using the control function module or scripting language of the PC software Designer software, such as: defining a series of system actions that are automatically or user-triggered. These system actions can be set to be controlled by parameters within the PC software, or by third-party devices through GPIO, RS-232 and TCP/IP. In addition, the system also supports the creation and calling of snapshots of some or all parameters, as well as custom user interfaces. The creation of user interfaces is very convenient and can be published to any control device on the network through the processor host

5. One of the main goals was to develop an audio processing platform with super audio processing resources that can meet the most complex system design requirements. Therefore, the PC software has very powerful audio processing capabilities. With the intuitive supporting design software, you can easily use rich audio processing plug-ins. At the same time, the PC software system also has built-in multiple detection and measurement tools to provide great convenience for system construction and maintenance

6. The PC software system adopts a centralized system structure. The advantage of this system structure is that it is easy to realize the backup of part or all of the system. The PC software system can easily realize the backup of the processor host, network, FT-AIM16 interface box and power amplifier. When any device in the main system fails, the backup device will immediately switch to replace the failed device. For example, when the processor host fails, the backup processor host will automatically switch to replace the processor host to ensure uninterrupted and continuous operation of the system

7. Centralized processing architecture, simplified signal path

8. The processor host provides TCP/IP, GPIO, RS-232 interfaces for connecting external control devices

9. Intuitive and simple system design interface

10. Based on standard Gigabit Ethernet hardware and protocols, audio and control signals are transmitted

11. Seamless compatibility with FionTu amplifiers and speakers