



SILENT ANGEL

RHEIN Z1

Music Server of Craftsmanship

Case Color



FEATURES

- Specially designed operating system: VitOS
- 120 GB Silent Angel Customized SSD for System Disk.
1 TB or 2TB Silent Angel Customized SSD for Data Disk (optional).
- Up to 2 simultaneous zones for multi-room streaming applications.
- High quality and thick aluminum alloy chassis.
- Ultra low power consumption SSD and isolated power circuit design inside the SSD to ensure low electrical noise emission from SSD.
- Low power consumption CPU to reduce the electrical noise emission from CPU.
- Customized Silent Angel Noise Absorber (SANA) inside.
- Audio-grade SSD for system and music data storage.
- Noise-reduction via SATA signal optimization. Special-picked SSD modules with EMI absorber and special power regulation circuit inside to isolate the power noise from the SSD controller chip.
- USB 2.0 and USB 3.0 ports for external storage expansion.
- USB Audio port for USB DAC connection.
- Fan-less design.

SYSTEM

> VitOS Features

VitOS is an operating system specially built for music server.

Dual Firmware:	Prevent from being damaged while firmware upgrade
Network accelerator:	Accelated network processing
USB Audio Optimizer:	Optimized USB Audio processing
Task Manager:	High efficiency task management
Application Manager:	Able to expand more and more application
System Manager:	Event-trigger design achieves lowest system loading.

> **VitOS is Important**

Stability and performance of VitOS is very important for a music server since it handles all requests from applications and control hardware accordingly.



SPECIFICATIONS

> **Basic**

Interfaces	1 x 100 / 1000 Base-T GbE with link / speed indicator 1 x USB Audio (supplies 5VDC @ 0.5A at max.) 2 x USB 2.0 (supplies 5VDC @ 0.5A at max.) 1 x USB 3.0 (supplies 5VDC @ 2A at max.) 1 x HDMI 1.4
Power Button	Aluminum alloy material
Power Indicator	Blue light

> **Advanced**

System Disk	120GB Silent Angel Customized SSD
Data Disk	1TB or 2TB Silent Angel Customized SSD (optional)
System	VitOS
CPU Power Consumption	6 Watt *
SSD Power Consumption	60 mWatt at max
SATA Cable	Strictly impedance controlled SATA cable
SATA Power Cable	OFC (Oxygen-Free Copper)
EMI Absorber	Silent Angel Noise Absorber (SANA)
Power Adaptor	Over designed 12VDC 7A switching power adaptor

> Power, Case, Environmental

Case Color	Black / Silver
Case Material	6061 aluminum alloy (at least 8mm thickness) case Carefully polished stainless steel bottom cover
Product Power Input	External Power 12VDC at 2A at max. **
Product Power Consumption	24W at max. **
Product Dimension	200 mm x 200 mm x 68 mm
Weight	6 KG (Gross Weight)
Temperature	Operating: 0 ~ 35 °C Storage: -20 ~ 70°C
Humidity	Operating: 10% ~ 90% RH (non-condensing) Storage: 5% ~ 95% RH (non-condensing)
Safety	CE、FCC

> DSD Support Notice

Please noted that DAC supports DSD with "DSD Native" is required for you to play DSD music up to DSD256 smoothly. If your DAC supports DSD with "DoP" (DSD over PCM) mode, then the Rhein Z1 only support DSD music up to DSD64 (which means DSD128 or DSD256 is not supported in DoP mode).

*Operating at base frequency with all cores active.

**Under the condition when no USB external device is connected

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