ShenZhen Renice Technology Co., Ltd

# ASAAC Storage Control Module

## Datasheet



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# CATALOGUE

**1 INTRODUCTION..... 2**

1.1 PRODUCT OVERVIEW..... 2
1.2 PRODUCT SHOWCASE..... 2
1.3 1.3ASAAC STORAGE CONTROL MODULE BLOCK DIAGRAM..... 3

**2 MAIN FUNCTIONS..... 3**

**3 SPECIFICATION..... 4**

3.1 WORKING ENVIRONMENT..... 4
3.2 ELECTRICAL..... 4
3.3 DIMENSION..... 4
3.4 SYSTEM CONFIGURATION..... 4
3.5 PORTS..... 5

# 1 INTRODUCTION

## 1.1 PRODUCT OVERVIEW

R6ASC-Z1M1 is a server storage control module mainly composed of CPU unit, health management (BMC) unit and related port controllers. The storage control module connect with the client's server module through the 10 Gigabit optical fiber based on iSCSI transmission protocol. The storage control module implements the mirroring function through the 10 Gigabit port.

And it supports RAID function, 8x SATA signal output. The SSD in the module supports the Physical Destruction and Logical Destruction function.

It cooperates with another server storage control module to implement dual-control storage function, supporting monitoring function to the critical voltage and key temperature, supporting remote open and shutdown reset function.

The health management unit of the storage control module supports IPMI2.0 protocol, supports Ext3, Ext4, VFAT, NTFS file system and other functions.

R6ASC-Z1M1 adopts standard 6U size and standard AASC structure. For specific design requirements, please see BKX609-XY-0260 "Server Storage Control Module Structure Design Requirements ".

## 1.2 PRODUCT SHOWCASE



Figure 1, R6ASC-Z1M1 Photo

### 1.3 ASAAC Storage Control Module Block Diagram

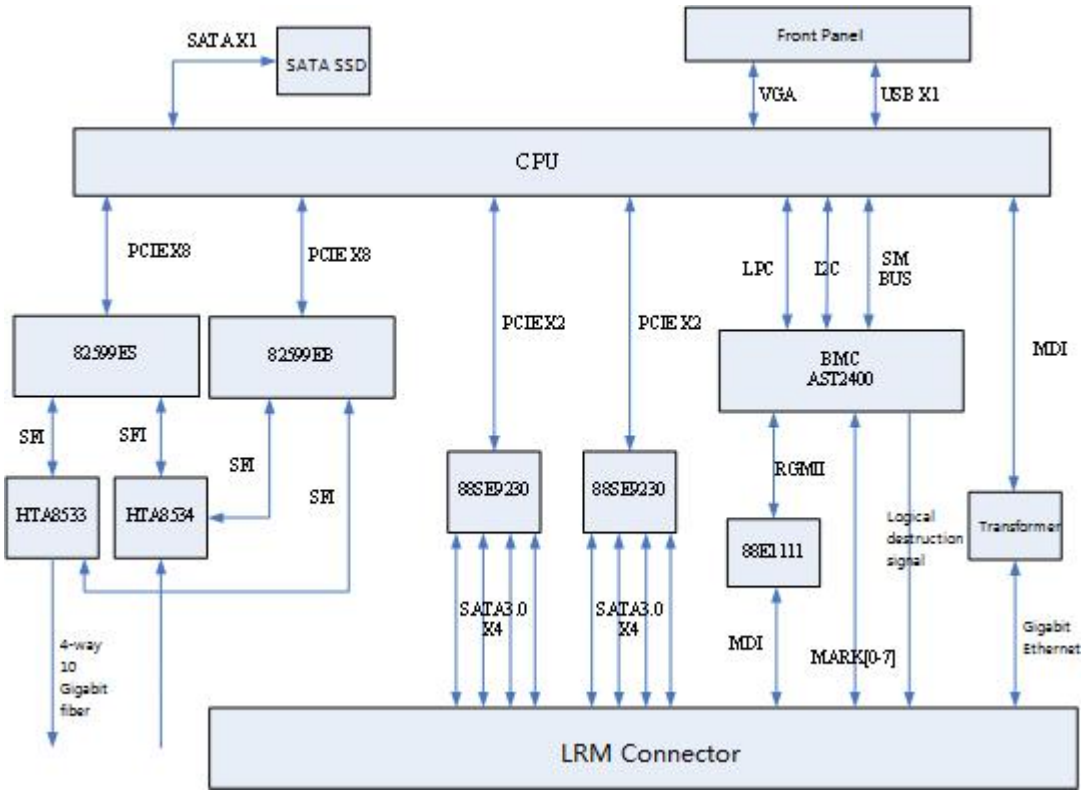



Figure 2 **Block Diagram**

# 2 MAIN FUNCTIONS

- Supports server storage modules can be expanded to 2 units
- Supports for server storage module RAID0 management
- Supports web management interface
- Supports multiple server modules to share storage space
- Has the ability to partition the storage module
- Supports partitioning, formatting, and deletion of storage modules
- Front Panel: extractor, USB ports, VGA, Nameplate installation area
- External connector: Support module power supply, signal ground, slot position, Gigabit network signal, configuration management Gigabit network signal, storage module destruction function, SATA, 10G network port, etc.
- Power Consumption: ≤ 105W (typical)
- Working Temperature: -40℃~+85℃

# 3 SPECIFICATION

## 3.1 WORKING ENVIRONMENT

| Item | Description | Remark |
|---|---|---|
| Working Temperature | -40~ +85℃ | |
| Storage Temperature | -50~ +100℃ | |
| Humidity | 95% | |
| Vibration | 5HZ-2000HZ, 1.5rms(working)<br>2Grms 20-2000Hz（non-working） | |
| Shock | 20G, 11ms（working）<br>30G, 11ms （non-working） | |

## 3.2 ELECTRICAL

| Item | Description | Remark |
|---|---|---|
| Working Voltage | DC +28V power supply, two-wire system, 28V and its return line | |
| Power Consumption | ≤105W | Typical |
| Cooling Method | Thermal conduction | |

## 3.3 DIMENSION

| Item | Description | Remark |
|---|---|---|
| Color | Black | |
| Outlook | Standard AASC | |
| Mainboard Size | Standard 6U | |

## 3.4 SYSTEM CONFIGURATION

| Item | Description | Remark |
|---|---|---|
| Optical Module | Not less than 8 channels of fiber access | |
| Gigabit Port | 1x Gigabit management network | |
| 10 Gigabit Port | 4x 10 Gigabit Ethernet ports (ISCSI) | |

| Item | Description | Remark |
|---|---|---|
| RAID Card | Onboard two-way RAID chip, support 8x 2.5” SATA3.0 SSD | |
| HA System | Support virtual IP, shared volume groups, replicated logical volumes, shared arrays, etc. | |

## 3.5 PORTS

| Item | Description | Remark |
|---|---|---|
| Destruction Port | 1x Destruction port | |
| Network | 4x 10 Gigabit ports, 2x Gigabit ports | |
| PCIe | 2x PCIe3.0 x8, 2x PCIe3.0 x4 | |
| USB | 1x USB port | |
| VGA | 1x VGAport | |
| Slot Address Interface | Slot address Mark[0:7] single-ended input interface | |