ShenZhen Renice Technology Co., Ltd.

Xeon E5 Rugged Storage Server

Data sheet



V1.00

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CATALOGUE

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1 Introduction

1.1 Product Overview

The RATX-4U06S-SI1 type 4U dual-channel rugged server equipment can be used for unmanned combat system with command communication vehicle, as the information processing server of the company command communication vehicle, load application software, and complete information processing and information interaction functions. The purpose of this product is to load application software, complete information processing, information interaction and other functions.

RATX-4U06S-SI is a 4U dual-channel Xeon rugged server is designed and developed according to the "4U dual-channel Xeon rugged server technology protocol", with high integration Features such as high temperature, strong heat dissipation, stable performance, convenient maintenance, etc., environmental adaptability and electromagnetic compatibility meet the national military standards.

1.2 Product Picture



Figure1 RATX-4U06S-SI1

1.3 Logical Block Diagram

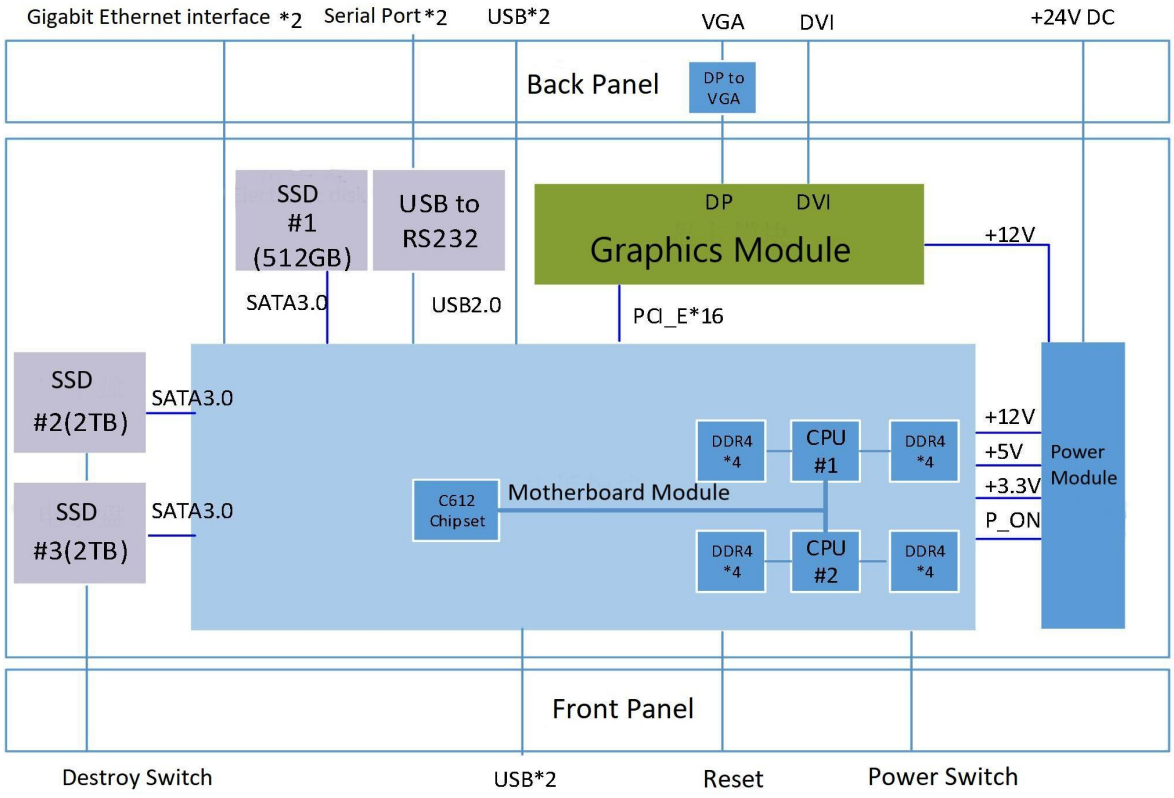


Figure 2 Block diagram of the internal logic of the module

2 Main Functions and Performance

- Processor: E5-2600 series processor V4, 14 cores, main frequency 2.1GHz;
- Storage: 8*32Gb，256Gb;
- Basic channel: 2 x 1GB Gigabit Ethernet ports, 2 x 10GB 10 Gigabit optical ports;
- Disk type: 3.5’ SATA;
- Hard disk specifications: 4 x 4T mechanical hard disks;
- Operating system: Support, Galaxy Kylin system, Win10, Windows server 2019 operating system

3 Product Specification

3.1 Operating Environment

Item	Description	Remark
Operating Temperature	-20℃ ~ +55℃	
Storage Temperature	-40~ +70℃	
Humidity	95%	
Vibration	Compliance with combined wheel vehicle vibration in GJB150.16A-2009	
Shock	Compliance with the impact requirements of ground equipment in the program I in GJB150.18A-2009	

3.2 Electrical Specification

Items	Description	Remark
Voltage	24VDC ± 4V	
Heat Dissipation	Air-cooling	

3.3 Mechanical Specification

Items	Description	Remark
Color	Iced gray (GY09)	
Height	4U	
Shell Material	Metal	

3.4 System Configuration

Items	Description	Remark
Processor	Dual-channel E5-2695 V4 series processor, 18 core, main frequency 2.1GHz	
Memory	Intel C612	
Storage	16 * 32GB, 512GB, with ECC function DDR4	
Operating System	Win10, pre-Windows Server 2019 operating system	
GPU	Separate graphics, NVIDIA Quadro P6000, 24GB	

3.5 Interface

Items	Description	Remark
Hard Disk Interface	8 x 3.5 / 2.5-inch SATA hard drive	
Network	2 x 1GB Gigabit Ethernet port, 2 x 10GB 10 Gigabit fibre optical port	
VGA	1 x VGA	
DVI	1 x DVI	
USB	2 x USB3.0，2 x USB2.0	
Serial Port	2 x RS232 interface	
Other	1 x power switch, 1 x reset switch, 1x self-destruct switch	

3.6 Other

Items	Description	Remark
RAID	Support RAID0, 1, 5, 6, 7, 10, 50, 60	
Hard Drive Self-destruct	Realize logical self-destruction of hard disk	
Redundant Power Supply	AC 220V input, 50HZ	

(Note: Please refer to Appendix A for detailed interface definition)

4 Product Naming Rules

