Shenzhen Renice Technology Co., Limited

Renice Xeon-D computing module

Datasheet



V1.0

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CATALOGUE

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1 Introduction

1.1 Product Overview

The R6ASC-SD1527-C1I1 module is a high-performance 6U ASAAC single-board computing module. In order to adapt to the on-board high-reliability use scenario, all components of the module adopt the form of board mounting, including: board mounting INTEL XEON-D1500 series processor, board mounting dual channel 32GB DDR4 memory (support ECC), board mounting 128GB MLC NAND storage (support SATA3.0). Onboard intelligent BMC management chip, with hardware status information monitoring and management functions such as fault reporting, power-on self-check, and running status self-check.

1.2 Product Picture



Figure 1 Picture of R6ASC-SD1527-C1I1

2 Product Specification

2.1 Environmental Specification

Specification	Description	Comment
Operating Temperature	-40℃ ~ +70℃	
Operating Temperature	-55℃ ~ +85℃	

2.2 Power Specification

Specification	Description	Comment
Operating Voltage	Main power: +12V	
Power Consumption	≤60W(D-1257)	
Heat-dissipating Method	Air cooling,compatible conduction design	

2.3 Physical Specification

Specification	Description	Comment
Product Appearance	6U ASAAC	
Board Size	25 (thickness) mm * 246 (length) mm *169 (width) mm	

2.4 Operation System

Specification	Description	Comment
CPU	Intel ®Xeon® Processor D-1527, 4 cores &8 threads,@2.2 GHz,6 Mbyte cache,TDP=35W	Other D-1500 series CPUs can be soldered according to customer requirements
Memory	On-board 16GB DDR4@2133MHz,support ECC;	The capacity can be expanded to 32GB according to customer requirements
Storage	On-board 128GB MLC NAND FLASH,SATA3.0; On board 1TBmSATA(SATA3.0,optional capacity)	
Software	Support windows, Linux, Vxworks, CUDA software driver	

Specification	Description	Comment
OS.	Windows、Linux、Vxworks	

2.5 Interface

Front out:

Specification	Description	Comment
USB	3x USB3.0,compatible with USB2.0,Support over current and ESD protection	
VGA	1x VGA,support 1920×1080	
GbE	1x Gigabit ethernet interface:1000BASE-T,10/100/1000M adaptive,support NCSI	

On-board:

Specification	Description	Comment
mSATA	1x mSATA interface,SATA3.0	
NAND FLASH	On-board 128G MLC NAND FLASH,SATA3.0	

Rear out:

Specification	Description	Comment
VGA	1x VGA,support 1920×1080	
USB	2x USB2.0,Support over current and ESD protection	
PCIE	1x PCIE 3.0X16 interface 1x PCIE 3.0X4 interface	
Aurora	3x Aurora 64B/66B X4,support 6.25Gbps	
GbE	1x Gigabit Ethernet interface 1000BASE-T, 10/100/1000M adaptive, support NCSI	
10GbE	2x 10 Gigabit Ethernet interface, multi-mode optical fiber transmission, optical fiber wavelength 850nm	
GTH	1x GTH X8 interface,support configuration as 8x GTH X1 or 2x GTH X4; multi-mode optical fiber transmission, optical fiber wave length: 850nm	
High-speed Difference Clock	2x customized interfaces, multi-mode optical fiber transmission, optical fiber wave length: 850nm	

Specification	Description	Comment
CAN	2x CAN interface, CAN2.0B, 500Kbps or 1Mbps rate can be configured	
RS485	4x RS485 interface	
RS232	2x RS232 interface	
LVDS	4x bidirectional LVDS interface, LVDS18 level	
IPMB	2x IPMB interface	

3 Ordering Rule

