Renice Technology Co. Limited

3U VPX 8TB Storage Module

Specification



V1.00

2019-5-23

CATALOGUE

1. INTRODUCTION 2

1.1 PRODUCT OVERVIEW 2

1.2 FUNCTIONAL BLOCK DIAGRAM 2

2. FUNCTION AND PERFORMANCE 2

3. SPECIFICATIONS AND PARAMETERS 3

3.1 ENVIRONMENT 3

3.2 ELECTRICAL SPECIFICATION 3

3.3 PHYSICAL SPECIFICATION 3

3.4 FEATURES 3

A：MECHANICAL DIMENSION 4

1. Introduction

1.1 Product Overview

Storlead storage module 3U VPX 8TB is a storage product based on SATA III interface, w hich is mainly composed of VPX connector, SSD controller, and flash memory array.Deliveres over 450MBps sequential read/write performance and extendable to maximum 10TB capacity. Features stable performance, reliability and power failure protection, making it an ideal solution for variety of applications in industrial and military field, including network storage server, dat a center and video recording taht need a large amount of data input and output equipment.

1.2 Functional block diagram

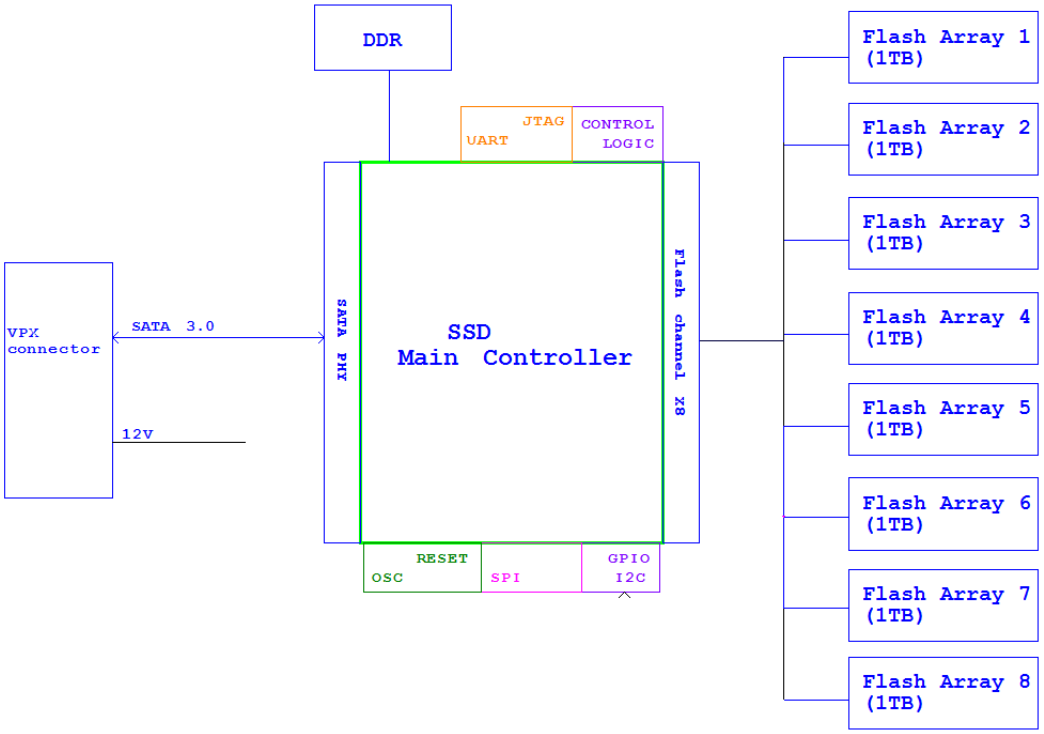


Figure 1

2. Function and performance

- 3U VPX interface with high reliability and high speed ： Based on VITA-65 standards
- SATAIII 6.0Gbps communication interface ： Sequential R/W≥450MB/S
- Storage Array Chip designed with high density and veneer patch mode ： Capacity up to 8TB(Max.10TB)

3. Specifications and parameters

3.1 Environment

Parameter/Condition		Remark
Operating Temperature	-40 ~ +85℃	
Non-operating Temperature	-50~ +95 ℃	
Relative Humidity (Non-condensing)	5-95%	
Operating Vibration	16.4 G (10Hz-2000Hz)	
Shock	Non-operating： 1500G(@0.5ms ,Half-sine wave, ±X, ±Y, ±Z axis, 1 time/axis)) Operating： 50G(@11ms ,Half-sine wave, ±X, ±Y, ±Z axis, 3 times/axis))	

3.2 Electrical specification

Parameter/Condition		Remark
Operating voltage	12V	
Consumption (Typically)	<=6W	

3.3 Physical specification

Parameter		Remark
Form factor	3U	See appendix A for details
Connector	VPX（P0,P1，P2）	
VPX Pitch	Support 0.8inch loading plate	

3.4 Features

Parameter		Remark
VPX Interface	VITA-65standard compliant	See appendix B for pin definitions
Communication interface	SATA III (6Gbps)	
Sequential R/W rate	>=450MB/s	
Capacity	8TB	Up to10TB

A：Mechanical Dimension

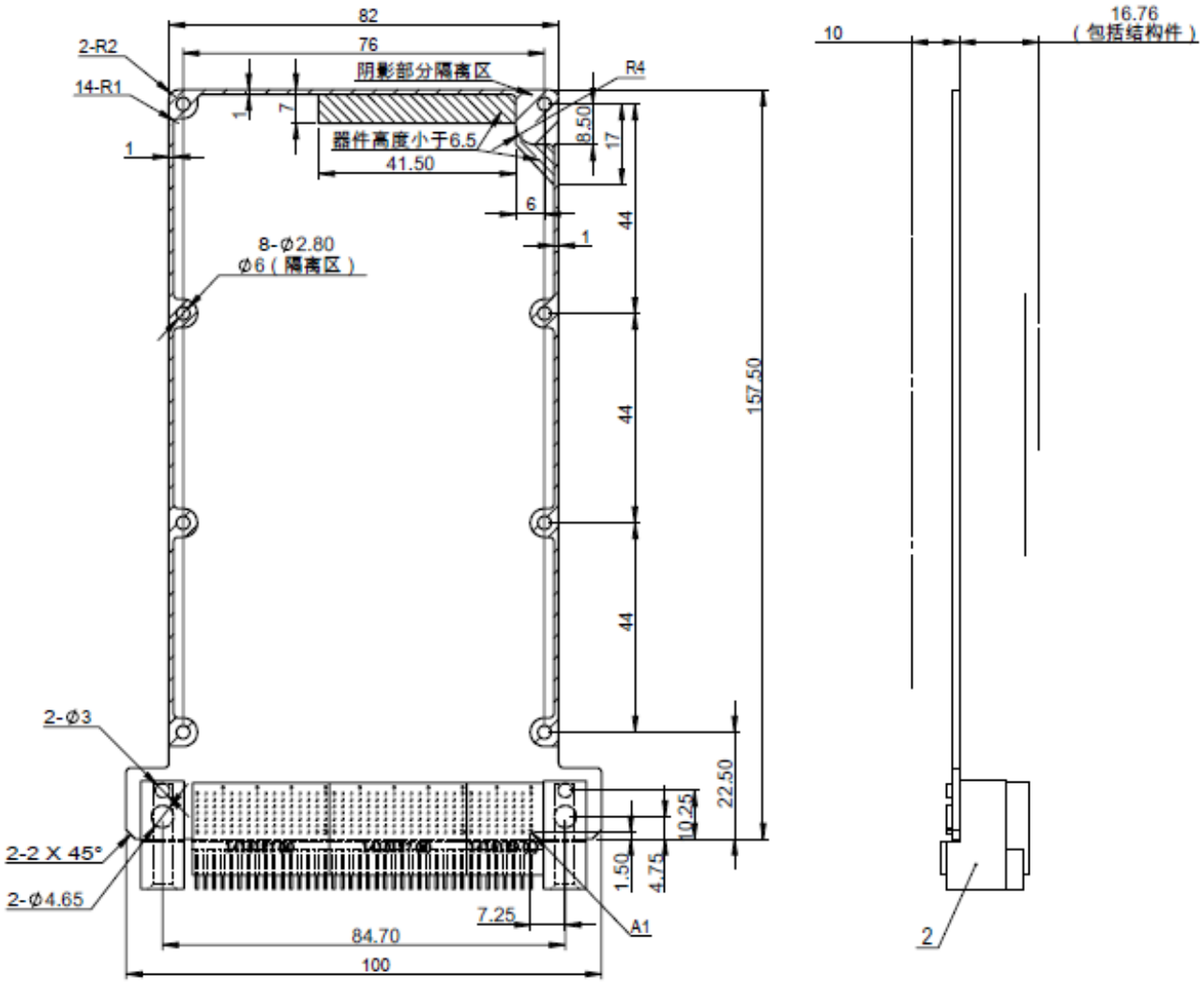


Figure 2