ShenZhen Renice Technology Co., Ltd

X5G Magnetic liveSSD for MobilePhones

Datasheet

V1.0

2024-9-23

REVISION HISTORY

Revision	Description	Date
1.0	Formal Release	9/23/2024

CATALOGUE

1. Introduction

1.1 Product Overview

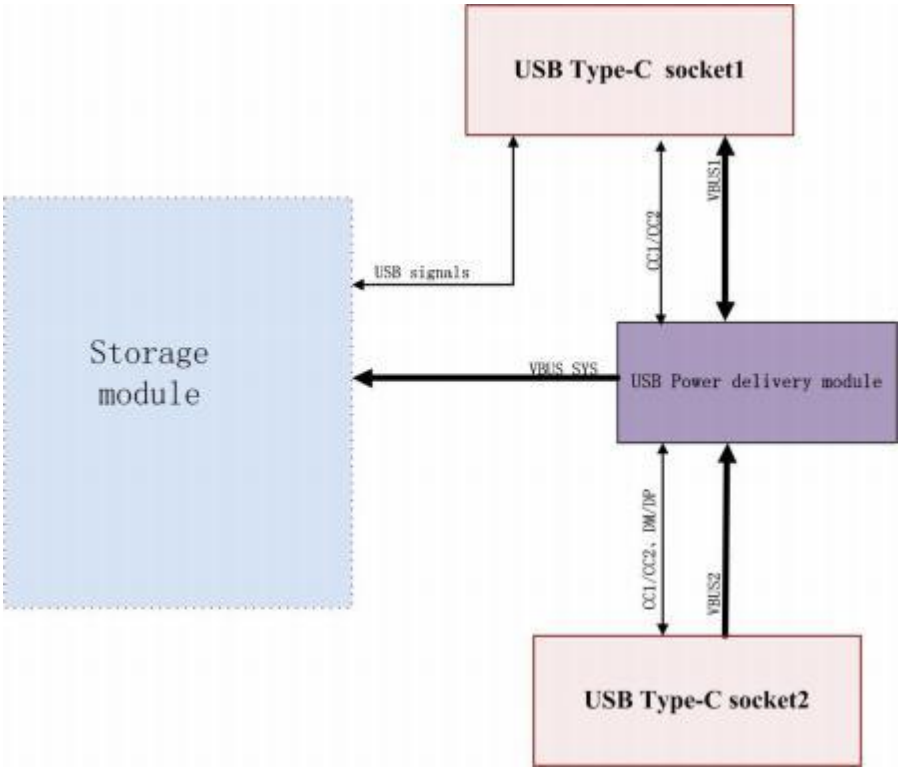
RENICE X5G series liveSSD deployed magsafe design with round shape, maintained the 1st generation configuration of two USB interface, providing more choices for customers with different needs in mobilephone recording scenes.

With USB 3.2 Gen 2x2 interface, the X5G can transfer a 2GB file in almost 1 second achieving sequential read/write speeds of up to 2,000MB/s and 1,800MB/s.

Integrated another USB Type-C charging port utilizing fast charge protocol (PD3.0 and QC2.0), the X5G can support real-time video recording (iPhone 15 Pro+) while charging without pausing your recording.

It deliveres multiple capacities from 512GB to 4TB and personalized pattern selection of cover on request. The magnetic design allows the disk to be easily attached to the mobile phones which support MagSafe. Also you can attached the disk to your phone with magnetic guide ring.

1.2 Funcational Bock Diagram



Picture 1: X5G liveSSD Functional Block Diagram

2. Features and Performance

- Read Speed up to 2,000MB/s, Write Speed up to 1,800MB/s, sustainable write at 1.1GB/s
- USB 3.2 Gen2x2 High Speed Interface
- Transfer 2GB file in 1 seconds
- Dual USB Type-C interface design, one is for data transfer. Another one is for mobile phone charging while recording
- Optional 512GB/ 1TB/ 2TB/ 4TB large storage capacity
- Ultra-thin and magnetic design, low power consumption, suitable for long-term recording

3. Specification

3.1 Electric Specification

Specification	512GB	1TB	2TB	4TB
Average Power Consumption (Readat full speed)	1.1W (1.6GB/s)	1.2W (1.6GB/s)	1.2W (1.6GB/s)	1.1W (1.6GB/s)
Average Power Consumption (Write at full speed)	2.4W (640MB/s)	3.1W (1.1GB/s)	4.1W (1.1GB/s)	3.3W(850MB/s)
Average Power Consumption (Mobilephone Recording on iPhone 15 Pro, ProRes 4K/60fps)	1.11W	1.11W	1.15W	1.17W
Average Power Consumption (Mobilephone Playback on iPhone 15 Pro, ProRes 4K/60fps)	1.06W	1.08W	1.09W	1.1W
Standby Power Consumption	0.7W	0.7W	0.7W	0.7W

3.2 Mechanical Specification

Specification	Description	Note
Dimension	Diameter: 57mm, Thickness: 8mm	
Housing Material	Aluminum Alloy	
	Transparency cover: stalinite	
Data Interface	Standard USB Type-C, Female Connector, 24PIN	USB3.2 Gen2X2, 20Gbps
Charging Interface	Standard USB Type-C, Female Connector,16PIN	
Weight	40g	

3.3 Performance

Specification	512GB	1TB	2TB	4TB
Sequential Read	2,085MB/s	2,086MB/s	2,087MB/s	2,040MB/s
Sequential Write	1,854MB/s	1,849MB/s	1,875MB/s	1,867MB/s
Random Read (4k)	32.2MB/s	38.8MB/s	31.5MB/s	29.2MB/s
Random Write (4k)	124.3MB/s	126.9MB/s	124.4MB/s	124.7MB/s
sustainable write	640MB/s	1.1GB/s	1.2GB/s	1.1GB/s

3.4 Video Recording Time (based on iPhone 15 Pro)

Recording Time	512GB	1TB	2TB	4TB
ProRes HDR/ SDR/ LOG 4K/60 fps	36 mins	73 mins	147 mins	295 mins
ProRes HDR/ SDR/ LOG 4K/30 fps	73 mins	147 mins	295 mins	591 mins
ProRes HDR/ SDR/ LOG 4K/24 fps	92 mins	184 mins	368 mins	737 mins
ProRes HDR/ SDR/ LOG1080 HD/60 fps	147 mins	295 mins	591 mins	1183 mins
ProRes HDR/ SDR/ LOG1080 HD/30 fps	295 mins	591 mins	1183 mins	2376 mins

Note: iPhone 15 Pro video recording (ProRes HDR/SDR/LOG 4K/60 fps) consumes 90% of the power while recording full 1TB

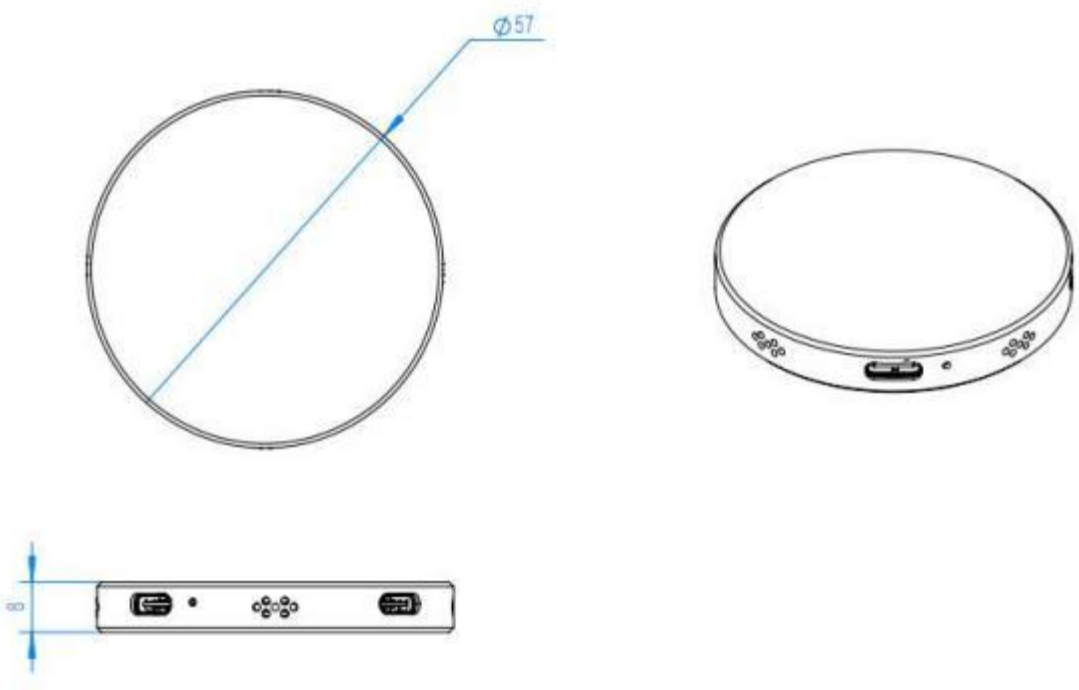
4. Order Information

Capacity	Part Number
256GB	RCT256G-U32X5GC
512GB	RCT512G-U32X5GC
1TB	RCT001T-U32X5GC
2TB	RCT002T-U32X5GC
4TB	RCT004T-U32X5GC

5. Accessories Information

Item	Quantity
USB Type-C Cable, double head, 40Gbps, 13.8mm	1pc
Type-C to USB Adapter, Aluminum alloy	1pc
Magnetic guide ring	1pc

Appendix A: Outline Structure Chart



Picture 2: X5G Magnetic liveSSD Stucture Chart