

### Z5-XXX

Mobile Solid State Drive

Rev:2.0

#### **Note:**

Company will not give any notice for change of products specifications. This product manual is only for reference. Please contact with KingSpec Electronic Technology Co., Ltd. for more detail technical parameters and information.

**Shenzhen KingSpec Electronics Technology Co., Ltd.**

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## 1. Product introduction

### 1.1 Summary

Z5 Series is a portable solid state drive which has excellent performance and high reliability. This device is made of semiconductor and nonvolatile NAND Flash. The interface of the device is new USB3.1 Type-C, which supports positive and negative side plug in recognition. The data transfer speed achieves USB3.2 Gen2.

### 1.2 Product model list

Model	Flash Type	Capacity	Sequential Read	Sequential Write
Z5-512	3D TLC	512GB	2000~2100MB/S	1700~1800MB/S
Z5-1TB	3D TLC	1TB	2000~2100MB/S	1700~1800MB/S
Z5-2TB	3D TLC	2TB	2000~2100MB/S	1750~1850MB/S

### 1.3 Features

1.3.1 USB3.2 Gen2 interface.

1.3.2 Support wear leveling.

1.3.3 Support Garbage collection.

1.3.4 Support Over-provisioning.

1.3.5 Support power management and intelligent management technology.

1.3.6 Support Native Command Queuing (NCQ) ;

1.3.7 Support TRIM (Disable Delete Notify) command;

1.3.8 Support Error Checking And Correcting(ECC).

### 1.4 Specifications

1.4.1 Interface protocol: USB3.2 Gen2x2(20Gbps);

1.4.2 Input voltage: DC 5V ( $\pm 5\%$ );

1.4.3 Operating temperature: 0°C ~ +70°C;

1.4.4 Storage temperature: -20°C ~ +75°C;

## DATASHEET

*Solid State Drive*

1.4.5 physical dimension: 104.70mm length \* 40.00mm wide \* 10.70mm height

error  $\pm 0.15$ mm;

1.4.6 Write endurance: Write 64GB /Day, theoretically can use 3 years;

1.4.7 Read life: unlimited;

1.4.8 MTBF: 1,000,000 hours;

1.4.9 Support Capacity: 512GB, 1TB, 2TB;

## 2. Measurements

L 104.70mm \* W 40.00mm \* H 10.70mm, Error  $\pm 0.15$ m (e.g. Figure 1)

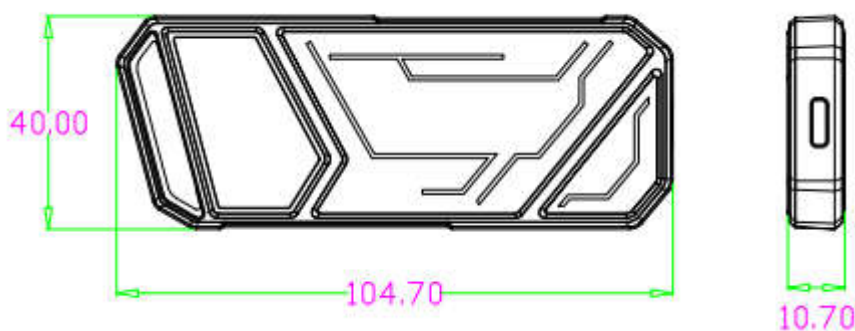


Figure 1

## 3. Interface description/Pin description

(e.g. Figure 2)

PIN	PIN Definition	PIN	PIN Definition
A1	GND	B1	GND
A2	TX1+	B2	TX2+
A3	TX1-	B3	TX2-
A4	5V	B4	5V
A5	CC1	B5	CC2
A6	D+	B6	D+
A7	D-	B7	D-
A8	/	B8	/
A9	5V	B9	5V
A10	RX2-	B10	RX1-
A11	RX2+	B11	RX1+
A12	GND	B12	GND



Figure 2

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