

Date	Revision	Item
September 23 2008	Ver1.0	First released

# SuperStick(USB 2.0) Specification

## **Model Name :**

**KU201G-U5HBSMDXG  
KU202G-U5IMSMDXG  
KU202G-U5IAMMDXG  
KU204G-U5IMSMDXG  
KU204G-U5IAMMDXG  
KU208G-U5IMSMDXG  
KU208G-U5IAMMDXG**

**Ver 1.1  
09/23/2008**

## Features

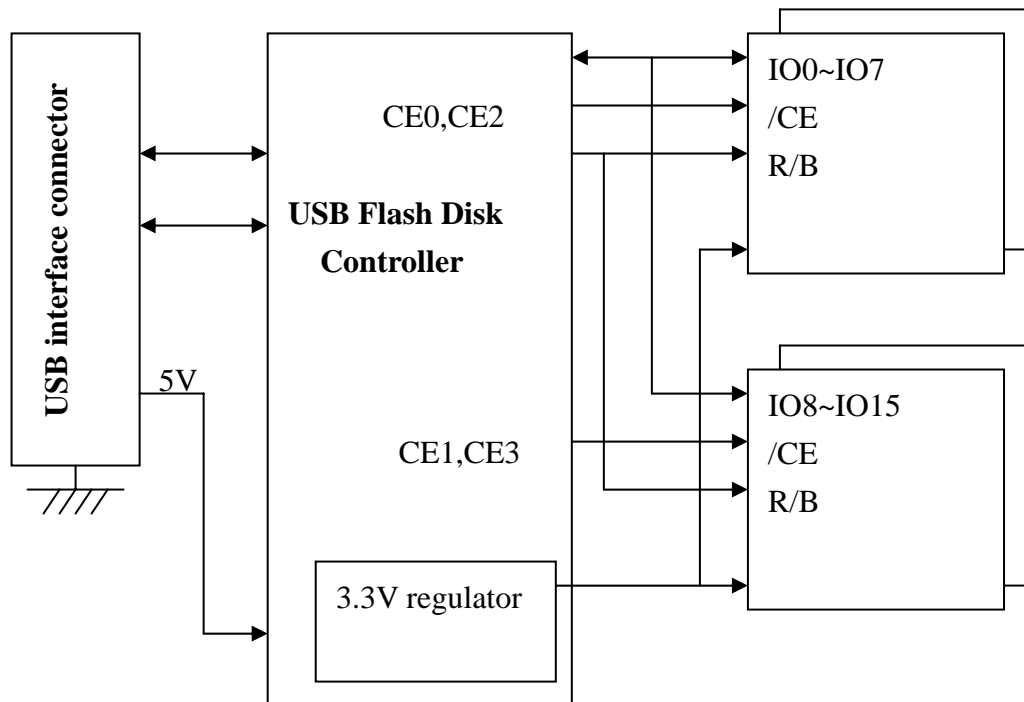
- Capacity:1GB~8GBytes
- Conforms to USB 1.1/2.0 specification
- Meet USB bus power specification
- Higher reliability: Built-in 8bit ECC and wear-leveling algorithm
- Hot plug and play for data access any time.
- Support OS  
Win Vista,XP, Win 2000, Windows Me, Linux 2.4 above and MAC OS 9.0 and higher.
- Support Ready Boost
- Multiple LUN windows driver is available.
- Easy to use, just plug into USB port, don't need external power
- High speed performance  
---Conforms to USB 2.0 high speed 480Mb/S.
- Support power save mode.
- Support security (password) AP.
- Program/Erase Endurance Cycle:5000times
- Data retention: 10 years
- Dimension:  
12.4mm(W) x 34.3mm(L) x 2.2mm(T)

## Description

These USB flash disk are highly integrated flash memories with serial and random access capability. It is accessible via USB interface optimized for fast and reliable data transmission. USB flash disk provide most cost effective solution for solid state mass storage market. Easy to use plug into USB port, just like a floppy disk, only it has high capacity and faster transferring rate.

USB flash disk provide multiple LUN driver that can be partition to three of different type. Single LUN without security, or single LUN with security or multi LUN with security. Use security (password) function , easy to protect important data. These USB flash disk is an optimum solution for large nonvolatile storage. Conveniently carry around, hot plug and play for data access anytime.

**Block Diagram**



**Pin Description**

Pin Name	Function
USB+	USB differential signal
USB-	USB differential signal
VSS	GND
VCC	USB Power Input

**DC Characteristics**

Symbol	Description	Min.	Typ.	Max.	Unit
$V_{Vbus}$	USB +5.0V Input Voltage	4.40	5.0	5.25	V
	Un-config current		45		mA
	Operating Read Current		96		mA
	Operating Write Current		105		mA
	Suspend Current			0.5	mA

**System Environment Specification**

ESD (contact Pads)	-4	4	KV
ESD(Non contact Pads Area) air discharge	-8	8	KV
Operation Temperature	0	70	°C
Operation Humidity	95%		
Storage Temperature	-20	85	°C
Storage Humidity	95%		

**Performance**

**A: OS: Windows 2000**

**Test Program : FD Bench Ver 1.01**

**Unit: KB/s**

Model	Sequential Read	Sequential Write	Random Read	Random Write
KU201G-U5HBSMDXG	21069	4476	21342	1949
KU202G-U5IMSMDXG	23400	6964	23400	2995
KU202G-U5IAMMDXG	22515	6449	24265	2431
KU204G-U5IMSMDXG	31653	10706	31801	2772
KU204G-U5IAMMDXG	31801	11891	31811	3478
KU208G-U5IMSMDXG	31498	10586	31811	3049
KU208G-U5IAMMDXG	31498	9708	31811	2557

**B: OS: Windows XP**

**Test Program : FD Bench Ver 1.01**

**Unit: KB/s**

Model	Sequential Read	Sequential Write	Random Read	Random Write
KU201G-U5HBSMDXG	20475	4442	20800	1974
KU202G-U5IMSMDXG	24265	5819	23400	2366
KU202G-U5IAMMDXG	24173	6164	22289	2443
KU204G-U5IMSMDXG	27190	8761	27638	2871
KU204G-U5IAMMDXG	28001	10096	28240	3491
KU208G-U5IMSMDXG	27645	8725	30046	3176
KU208G-U5IAMMDXG	29915	6612	29776	2619

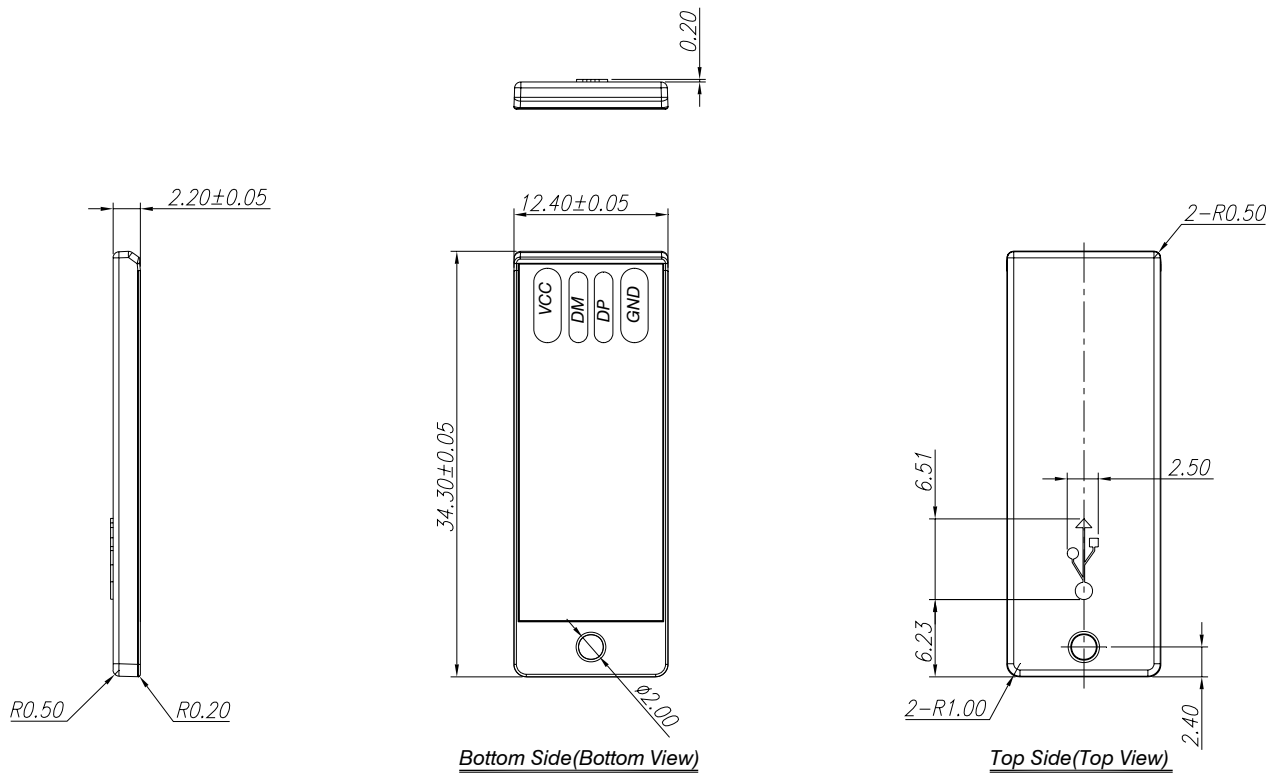
C: OS: Windows Vista

Test Program :Winsat

<b>Model</b>	<b>Random Read</b>	<b>Random Write</b>
<b>KU201G-U5HBSMDXG</b>	<b>6.38 MB/S</b>	<b>4.32 MB/S</b>
<b>KU202G-U5IMSMDXG</b>	<b>6.25 MB/S</b>	<b>4.19 MB/S</b>
<b>KU202G-U5IAMMDXG</b>	<b>5.57 MB/S</b>	<b>3.07 MB/S</b>
<b>KU204G-U5IMSMDXG</b>	<b>5.51 MB/S</b>	<b>3.66 MB/S</b>
<b>KU204G-U5IAMMDXG</b>	<b>5.29 MB/S</b>	<b>2.73 MB/S</b>
<b>KU208G-U5IMSMDXG</b>	<b>5.15 MB/S</b>	<b>3.22 MB/S</b>
<b>KU208G-U5IAMMDXG</b>	<b>7.16 MB/S</b>	<b>2.49 MB/S</b>

**Remark:** the performance on vista which is tested after initial superstick

**Physical Outline**



**NOTE:**

1. Unless otherwise specified All dimension tolerances are  $\pm 0.05$ mm
2. Material: PC