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2.5" Portable SSD – S533-E

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Revision History

Revision	Date	History	Remark
A.0	2010/05/10	New Creation	
A.1	2010/7/29	Update Block Diagram	

Important!! Please make sure the driver matches the part number on your pen drive before you download.
Software AP System Requirements. One of following operation systems: Windows 98/98SE/Windows ME/Windows 2000/Windows XP
The advertised memory capacity of this device represents unformatted capacity. Please note that once formatted and due to variations in flash module block limitations, the functional storage space will be lower than the advertised capacity.
“PQI reserves the right to make changes without notification when fit, form, function, quality and reliability are not affected. The data sheets do not constitute contract documents and should not be considered part of the specification for purposes of any warranty.”

1. Introduction to S533-E

PQI S533-E combine with Intel X25-M SSD and uses USB3.0, its transfer bandwidth is 10x that of USB2.0 portable storage and enclosed, is an enthusiast grade SSD. In addition, it also comes with PQI's TurboHDD USB software where it has been clocked at a maximum of 236MB/sec read and 86MB/sec write. The software boost dramatically increases transfer rate, stability, efficiency and maximizes its potential in every way!

Aesthetically, S533-E has rounded edges with hairline treated aluminum casing. Painted in diamond red, its aura is of fashion and elegance. Practical with good looks, it turns heads wherever it goes!

PQI's S533-E is available in 80GB / 160GB capacities.

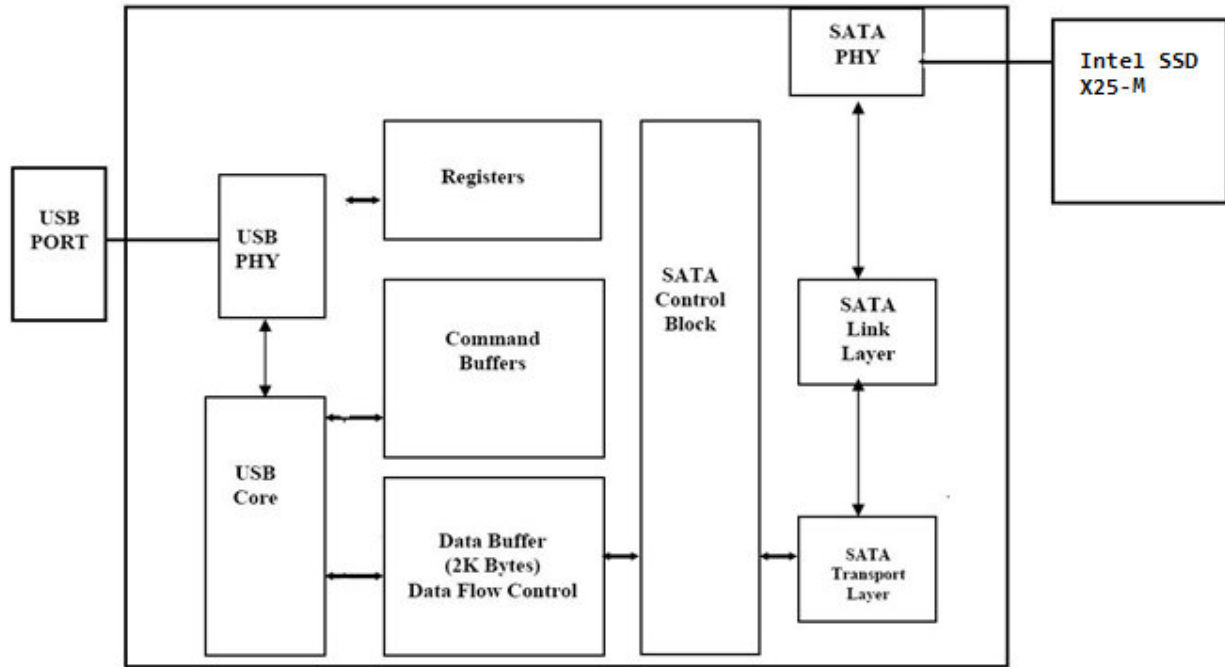
2. Main Features Overview

- Full USB 3.0 compatibility (backward compatible with USB 2.0)
- Hot-swapping and plug-and-play support
- High quality and stylish metallic casing
- Free TurboFlash USB software
- Super fast transfer rate and stability
- Noiseless operation

3. Product Specification

* Capacity: 80/160GB * Hard Drive Interface : USB3.0
* Hard Drive Specification : 2.5 inch SATAII Hard Disk
* Enclosure Interface : USB 3.0
* Hard OS System : Windows 98SE, ME, 2000, XP, Vista, 7, Mac 10.0 * Software OS System: Windows 98SE, ME, 2000, XP, Vista, 7
* Voltage : 5V, 2A
* Size : 128(L) x 82.5(W) x 17(H) mm
* Temperature : Operation 0°C to 55°C Storage -20°C to 60°C
* Power Consumption : 480mA (Max.)
* Certification : CE/FCC/BSMI/VCCI/KCC

4. Block Diagram



5. Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit
Vcc	Power Supply	-0.3	3.69	V
Vin	Input Voltage	-0.3	Vcc+0.3	V
Vout	Output Voltage	-0.3	Vcc+0.3	V
Tstg	Storage Temperature	-55	150	° C

6. DC Characteristics for 3.3V Operation

Symbol	Parameter	Condition	Min.	Typical	Max.	Units
V _{il}	Input Low voltage	CMOS	-0.3		0.8	V
V _{ih}	Input High Voltage	CMOS	2.0		5.5	V
V _{ol}	Output Low voltage	I _{oh} =2-24mA			0.4	V
V _{oh}	Output high voltage	I _{oh} =2-24mA	2.4			V
R _i	Input pullup/pulldown resistance	V _{il} =0/V _{ih} =V _{cc}		75		KΩ
I _{cc}	Operating Supply current	V _{cc} =3.3v			150	mA

7. Recommended Operating Conditions

Symbol	Parameter	Min.	Typ.	Max.	Units
V _{cc}	Power Supply	3.0	3.3	3.6	V
V _{IN}	Input Voltage	0	-	V _{cc}	V
T _j	Commercial Junction Operating Temperature	0	25	115	°C

8. Pin Assignments

Pin Number	Signal Name	Description	Mating Sequence
1	VBUS	Power	Second
2	D-	USB 2.0 differential pair	Third
3	D+		
4	GND	Ground for power return	Second
5	StdA_SSRX-	SuperSpeed receiver differential pair	Last
6	StdA_SSRX+		
7	GND_DRAIN	Ground for signal return	
8	StdA_SSTX-	SuperSpeed transmitter differential pair	
9	StdA_SSTX+		
Shell	Shield	Connector metal shell	First

Note: Tx and Rx are defined from the host perspective

9. Physical Specifications

9.1 Dimensions:

9.1.1 Height: 128mm± 0.1mm

9.1.2 Width: 82.5mm ± 0.1mm

9.1.3 Depth: 17mm +0.1, -0.3mm

9.2 Outline of top view

