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RoHS Compliant

Commercial USB *Flash Drive*

AH162-A Product Specification

October 13, 2015

Version 1.3

Table of Contents

1. General Descriptions

Apacer AH162-A is a removable flash disk drive with USB interface and capabilities of supporting various storage capacities. Compatible with both USB 1.1 and 2.0 specifications with its plug-and-play nature, AH162-A is can be easily adopted in any computing system with an available USB port. The device can be automatically detected by the host computer so that users can access data to read, write, copy, or move data between host system drive and AH162-A. No battery, cable, or software driver is required, AH162-A is widely compatible with mainstream computer platforms, no matter desktop or laptops, as long as there is an available USB port. AH162-A makes data transfer easy, fast and handy.

2. Features

- Compatible with USB 1.1 and 2.0 specifications
- Capacity: SLC – 2, 4 GB
          MLC – 8, 16, 32 GB
- Operating system support:
  - Windows: 2000 SP4, XP, Vista, and 7. (note: no device driver is necessary for Windows starting from XP).
  - Mac OS 8.1 or later (for USB 1.1 interface speed)
  - Mac OS X 10.2.8 or later (for USB 2.0 interface speed)
  - Linux Kernel: version 2.4.0 or above (for USB 1.1 interface speed)
  - Linux Kernel: version 2.4.10 or above (for USB 2.0 interface speed)
- Plug & Play
- Data retention up to 10 years
- Operating voltage: DC 4.5 ~ 5.5V from USB port (no external power is required)
- Interface transfer rate:
  - High speed: up to 480Mbits/sec for USB 2.0
  - Full speed: up to 12Mbits/sec for USB 1.1
- Low power consumption
- Altitude: 80,000 feet (relative to sea level)
- Acoustic noise: 0 dB (at one meter)
- Vibration: 15G peak to peak (max)
- Operating temperature: 0-70°C
- Humidity: 20% to 90%

3. Performance

Table 3-1 Performance (SLC)

Performance \ Capacity	2 GB	4 GB
Sustained read (MB/s)	22	24
Sustained write (MB/s)	19	21

Table 3-2 Performance (MLC)

Performance \ Capacity	8 GB	16 GB	32 GB
Sustained read (MB/s)	26	26	25
Sustained write (MB/s)	11	11	12

Note: Results may differ from various flash configurations or host system setting

4. Power consumption

Table 4-1: Typical power consumption (SLC)

Modes \ Capacity	2 GB	4 GB
Active (mA)	75	70
Idle (mA)	40	40

Table4-2: Typical power consumption (MLC)

| Modes \ Capacity	8 GB	16 GB	32 GB
Active (mA)	100	100	100
Idle (mA)	40	40	40

Note: Results may differ from various flash configurations or host system setting

5. Operating Range

Items	Range
Supply Voltage	5.0V±10% (4.5-5.5V)
Operating temperature	0°C to 70°C
Storage temperature	-25°C to 85°C

6. Dimensions
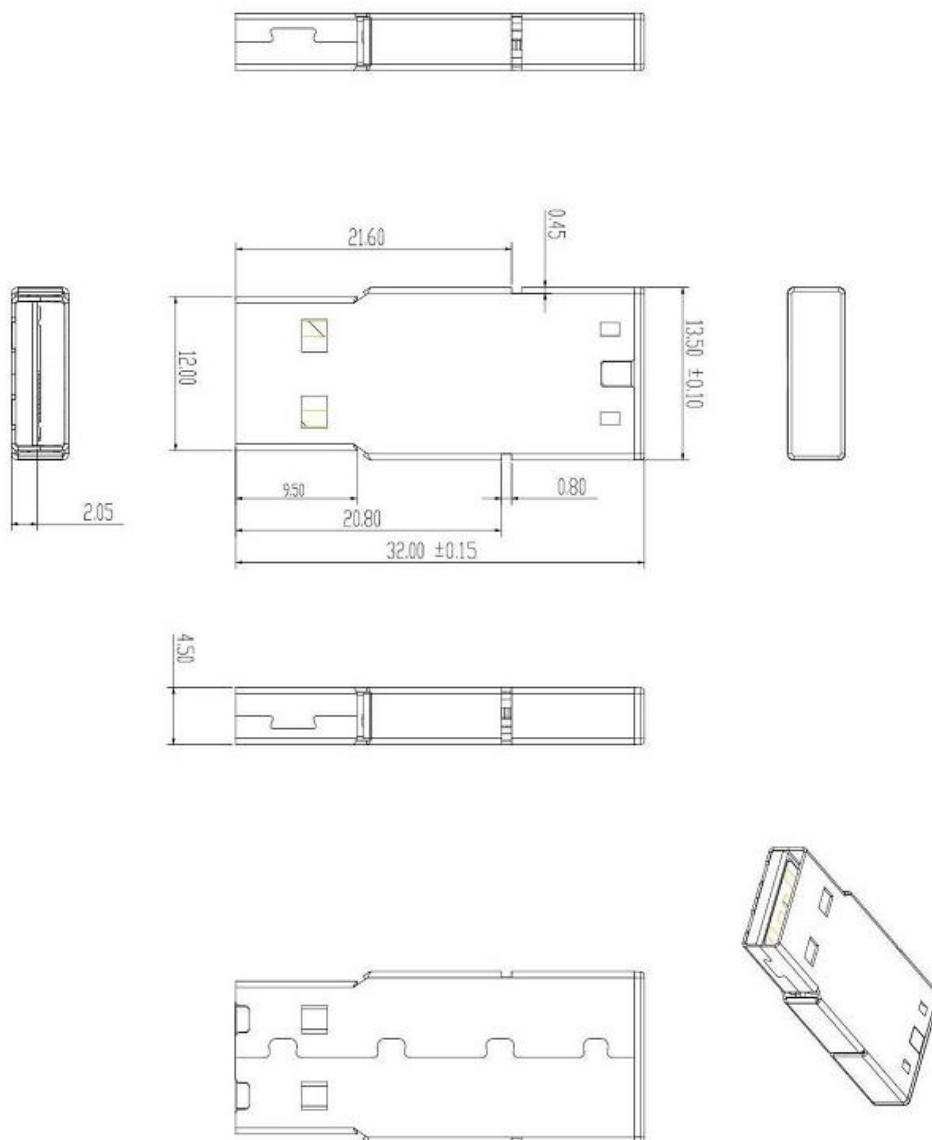
Unit: ㎜

Tolerance: ± 0.2

7. Product Ordering Information

7.1 Product Code Designations

A P H A x x x x 2 B A C G – X XXX

Flash Type:
TM: Toshiba MLC
T: Toshiba SLC

Version Control

G: RoHS Compliant

Temperature:
C: Commercial Temperature

PCB version

Model Name
B = AH162-A

Solution version

Capacities:
002G = 2GB
004G = 4GB
008G = 8GB
016G = 16GB
032G = 32GB

USB Drive

Apacer Product Code
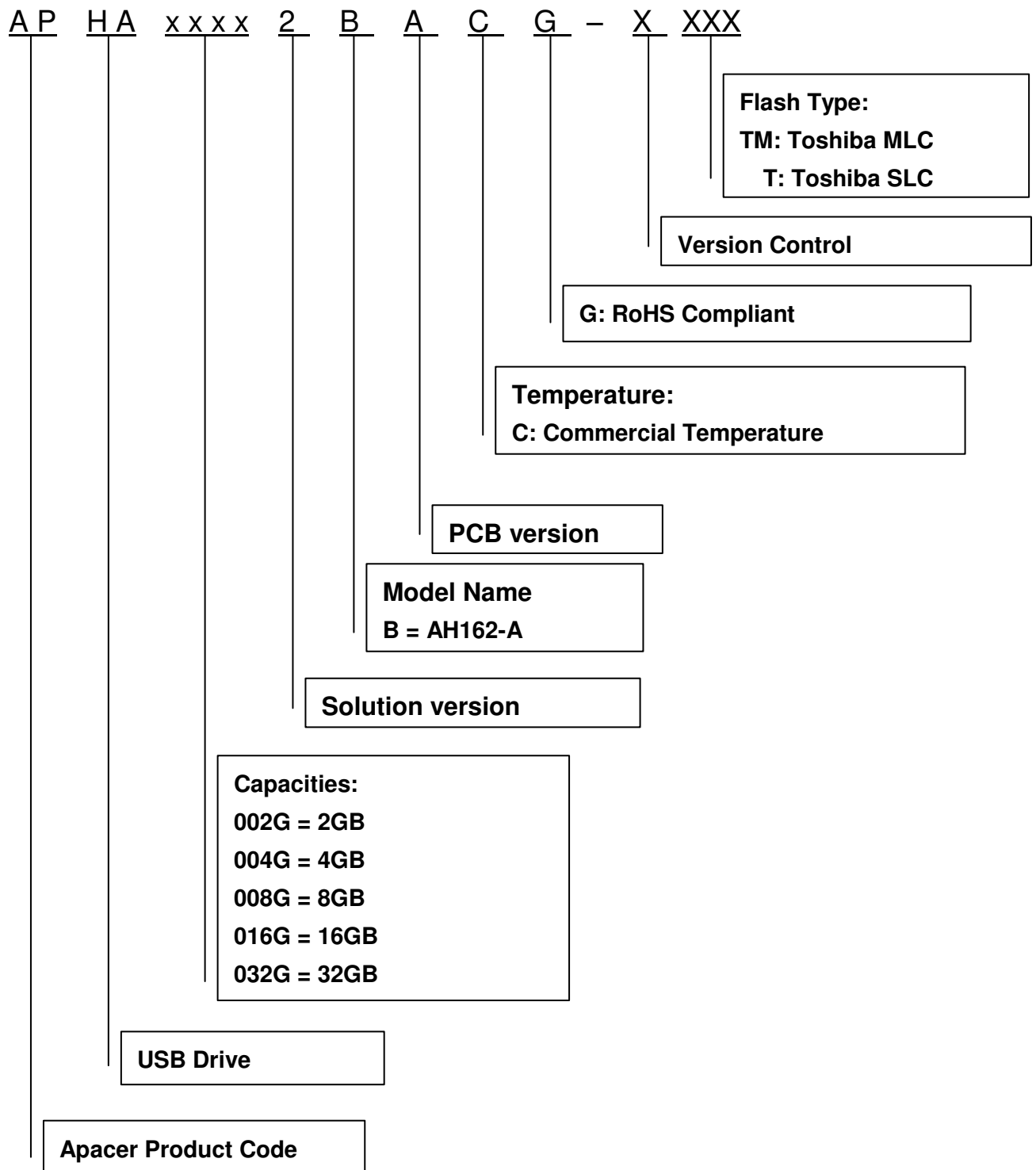
7.2 Valid Combinations

7.2.1 AH162-A (SLC)

Capacity	Standard
2GB	APHA002G2BACG-CT
4GB	APHA004G2BACG-CT

7.2.2 AH162-A (MLC)

Capacity	Standard
8GB	APHA008G2BACG-DTM
16GB	APHA016G2BACG-DTM
32GB	APHA032G2BACG-DPTM

Revision History

Revision	Date	Description	Remark
1.0	11/04/2014	Official release	
1.1	11/06/2014	Revised the label photo of cover page	
1.2	02/11/2015	Added 4 GB SLG information	
1.3	10/13/2015	Revised based on the15nm flash spec	

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