

RoHS Compliant

USB Flash Drive

EH353 MLC Product Specifications

September 25th, 2014

Version 1.0



Apacer
Access the best

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FEATURES:

- **USB3.0 Super Speed compatible, and backward compatible with USB2.0 & interface**
 - USB3.0 max. transfer rate: 5.0 Gbps
 - Backward compatible with 480Mbps & 12 Mbps
- **Capacity**
 - 8, 16, 32, 64 GB
- **Performance**
 - Sustained read: up to 205 MB/s
 - Sustained write: up to 85 MB/s
- **Intelligent USB Module**
 - Built-in hardware ECC
 - Power saving implemented
- **Temperature ranges**
 - Operating: 0 °C to 70 °C
 - Storage: -40 °C to +85 °C
- **Power consumption (typical)**
 - Active mode: 265 mA
 - Idle mode: 70 mA
 - Operating voltage: 5V
- **RoHS Compliant**
- **USB bus-powered capability**
- **NAND Flash Type: MLC**

Notes: the results for performance and power consumption addressed here may vary in real world platforms.

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1. General Description

Apacer USB3.0 Handy FLASH Drive EH353 is ultra high-performance flash disk drive designed offering portable storage solutions or external memory expansion. This new generation USB flash drive is compatible with the latest USB specification – USB3.0 Super Speed, with a maximum transfer rate of 5.0 Gbps. The connector is backward employable with USB2.0 and USB1.1 interfaces as well. With compliance with USB3.0 specification, this USB drive can deliver up to 205 MB/s outstanding performance. Reliability wise, the USB comes with built-in hardware ECC to ensure data integrity. This product is well suited for portable flash storage applications while operating at minimal power consumption.

1.1 Performance-optimized USB Controller

1.1.1 Power Saving Implemented

The internal controller of the USB model is designed with power saving implementations, allowing the device to operate at low power consumption.

1.1.2 Program RAM Architect

The internal Program RAM implementation allows the host to upgrade firmware codes anytime when needed.

1.1.3 Error Correction Code (ECC)

The UFD utilizes 1-bit Error Detection Code (EDC) and Error Correction Code (ECC)

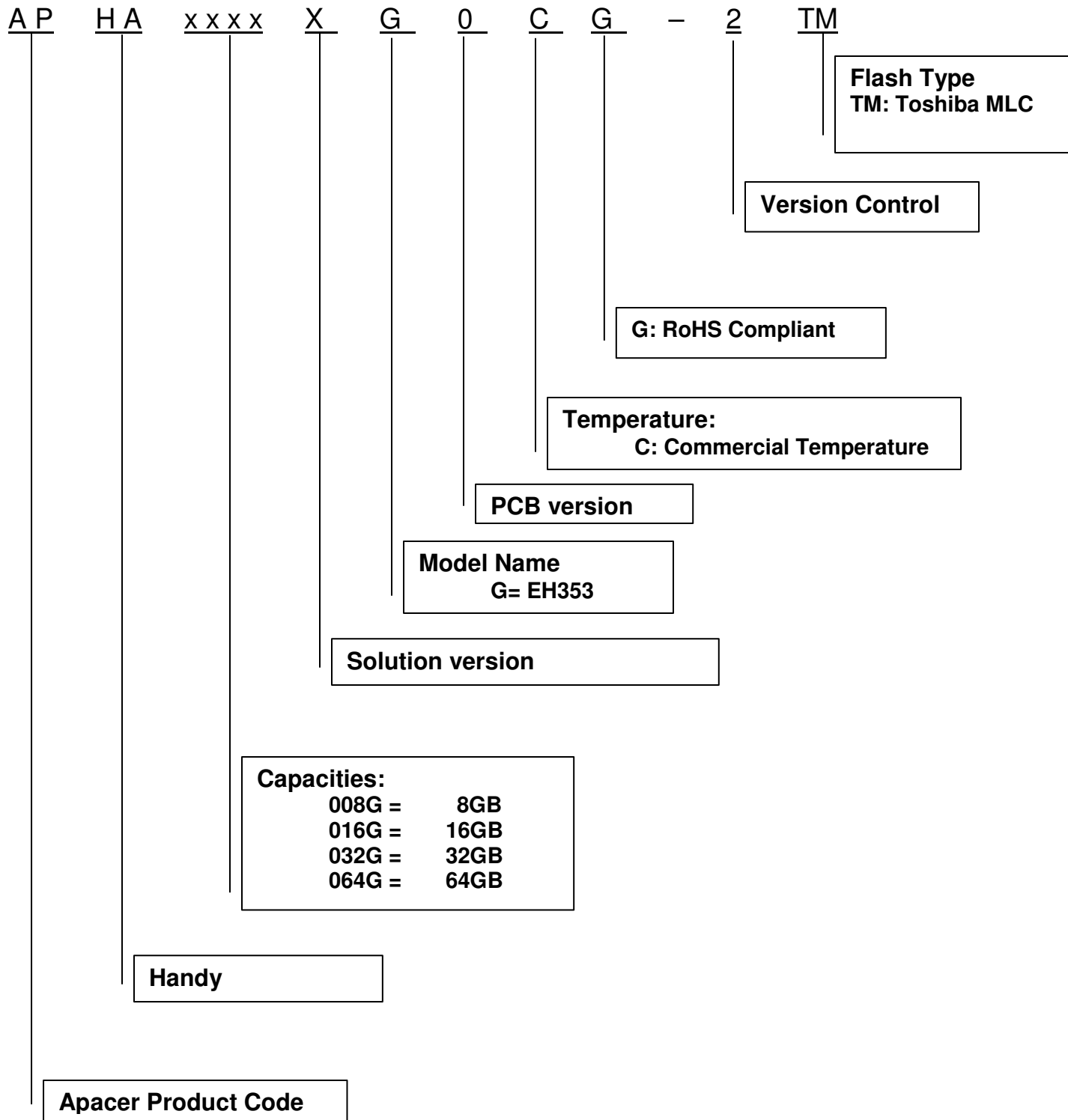
2. General Specifications

Interface	Super-speed USB3.0 compliant; backward compatible with USB 2.0 and USB 1.1				
Performance*		8GB	16GB	32GB	64GB
	Read (MB/s)	205	200	205	200
	Write (MB/s)	20	45	85	80
Temperature	0 to 70 °C				
Power consumption*	Active: 265 mA Idle: 70 mA				
MTBF	1,000,000 hours				

*Results may vary from flash configurations or host system settings.

5. Product Ordering Information

5.1 Product Code Designations



5.2 Valid Combinations

EH353 (MLC)

<u>Capacity</u>	<u>Standard</u>
8GB	APHA008GAG0CG-1TM
16GB	APHA016GAG0CG-1TM
32GB	APHA032GAG0CG-1TM
64GB	APHA064GAG0CG-1TM

Note: For availability, please consult with our sales representatives.

Revision History

Revision	Description	Date
0.1	Preliminary	07/17/2014
1.0	Official release	09/25/2014

Global Presence

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