

Next Generation of Multi-File Video Recording

The most beautiful memories deserve preservation with the highest video specifications! Apacer microSD 5.0 UHS-I card series are equipped with multiple protections and high durability to ensure uninterrupted video recording in the harsh environments. By complying with SD Association's latest 5.0 (Video Speed Class 10 & 30) standard and the UHS-I (Ultra High Speed – I) standard, the demand for 4K video recording has been escalating as sports and aerial photography has become a fashion in recent years. The microSD cards are highly tailored for 4K video recording to significantly reduce file transmission time.

The SD 5.0 Video Speed Class standard is a recently announced standard by the SD specification association delivers real-time multi-file recording for many applications and supports the highest video resolutions and qualities available today.

Apacer microSD 5.0 UHS-I series comes in various capacities, offering the right memory space for precious pictures and videos, as well as useful Apps.

Applications

- IP Cam
- Extreme Sports Camera
- Drone
- Gaming console
- Smart phone
- Tablet PC

Features:

- Supports SD System Specification Version 5.0
- Supports SDHC up to 32 GB; SDXC up to 2 TB;
- Video Speed Class 30 **V30**
(minimum transfer speed over 30MB/s), ideal for High Resolution images and Ultra HD videos
- UHS-I: Ultra High Speed-I **U3**
- Video Speed Class 10 **V10**
(minimum transfer speed over 10MB/s), ideal for 3D and Full HD videos
- UHS-I: Ultra High Speed-I **U1**
- ECC

General Product Specifications

Specifications	
Interface	microSD Specification Version 5.0
Interface speed	Video Speed Class 30 V30
	UHS-I 3 (Indicate Speed Class 3 on UHS-I Interface)
	Video Speed Class 10 V10
	UHS-I 1 (Indicate Speed Class 1 on UHS-I Interface) Class 10 (Indicate SD Speed Class when used with a device that does not support UHS Interface)
Capacity*	16GB-256GB
Form Factor	SDHC or SDXC
Operating Voltage	2.7V to 3.6V
Dimensions	(L)15 x (W)11 x (H) 1 mm
Temperature	Operating -25°C to 85°C
	Storage -40°C to 85°C
Humidity	Operating: RH=93% under 25°C non-condensing
	Storage: RH=93% under 40°C non-condensing
Durability	Minimum 10,000 insertion/removal cycles
Warranty	Limited product lifetime warranty
Certifications	RoHS, CE, FCC, VCCI, RCM

*Unformatted. Theoretically, 1GB=1,000,000,000 Bytes. Under operating systems, the capacity might appear to be less than the theoretical capacity because the calculation in OS is based on 1 GB = 1024 MB / 1MB =1024KB and a minority of the capacity is reserved for maintenance purposes.

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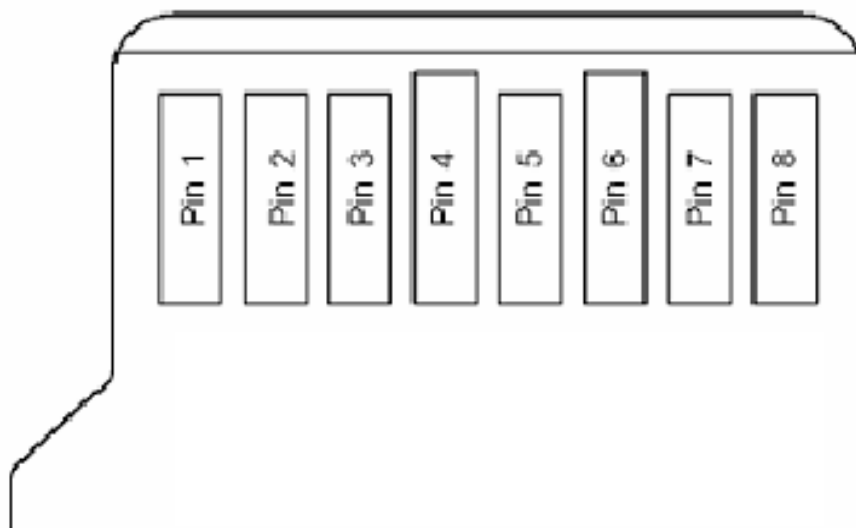
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Electrical Interface

- Card Architecture



- Pin Assignment

Pin	SD Mode		SPI Mode	
	Name	Description	Name	Description
1	<i>DAT2</i>	Data Line [Bit 2]	<i>RSV</i>	<i>Reserved</i>
2	<i>CD/DAT3</i>	Card Detect/ Data Line [Bit 3]	<i>CS</i>	Chip Select (neg true)
3	<i>CMD</i>	Commend/ Response	<i>DI</i>	Data In
4	<i>VDD</i>	Supply voltage	<i>VDD</i>	Supply voltage
5	<i>CLK</i>	Clock	<i>SCLK</i>	Clock
6	<i>VSS</i>	Supply voltage ground	<i>VSS</i>	Supply voltage ground
7	<i>DAT0</i>	Data line [Bit 0]	<i>DO</i>	Data out
8	<i>DAT1</i>	Data line [Bit 1]	<i>RSV</i>	<i>Reserved</i>

Physical Dimensions

- Physical Mechanical Outline

Dimensions Card Package	11mmx15mm Min. 10.9mmx14.9mm Max.11.1mmx15.1mm
Thickness	1.0mm +/- 0.1mm
Surface	Plain (except contact area)
Edges	Smooth edges
Inverse insertion	Protection on right corner (top view)

Ordering Information

Speed	Capacity	P/N
UHS-I U3 V30 A1	64GB	AP64GMCSX10U7-X
	128GB	AP128GMCSX10U7-X
	256GB	AP256GMCSX10U7-X

Revision History

Version	Description	Date
1.0	Preliminary release	2018/05/24
1.1	Updated address of American office information	2019/10/21
1.2	Revised Dimension Content and Added Durability	2019/12/10

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