



microSD300 Series

Product Datasheet

Industrial Temperature Grade -40°C - 85°C

Revision History

Revision	Description	Date
001	First released	March, 2023
002	Add TBW	March, 2023
003	Modify Storage Temperature	April, 2023
004	Update performance	June, 2023
005	Modify Dimensions	September, 2023

microSD300 series microSD card

(microSDHC/microSDXC UHS-I Class 10 V30 A2 Card)

Product Specification

- Form Factor
 - Micro Secure Digital (microSD Card)
- Dimensions
 - 11 mm x 15 mm x 1 mm
- Flash Type
 - 3D TLC NAND flash
- Capacity
 - pSLC: 8 GB~16GB
 - 3D TLC: 32GB~256GB
- Operating Voltage
 - 2.7V ~ 3.6V
- Operating Temperature
 - -40°C (-13°F) ~ 85°C (185°F)
- Storage Temperature
 - -50°C (-58°F) ~ 95°C (203°F)
- Performance
 - Read Speed (Max.) up to 90 MB/s
 - Write Speed (Max.) up to 80 MB/s
- Compliant with SD specification 6.0
- Certificate
 - CE / FCC
- Support SMART tool

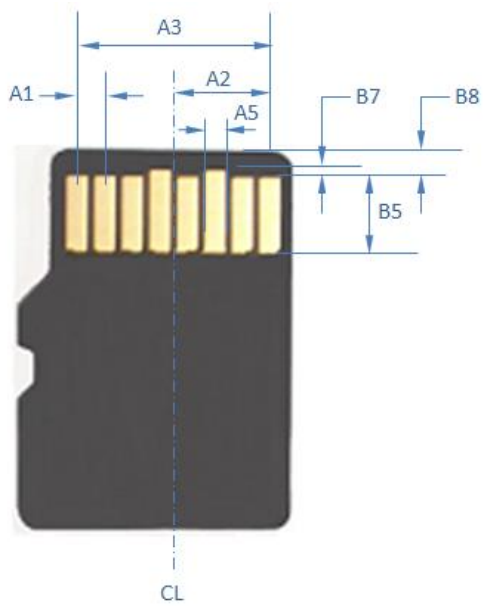
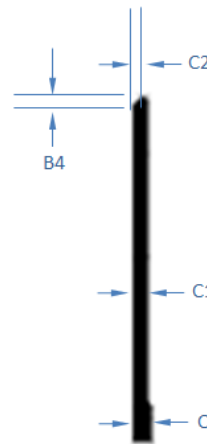
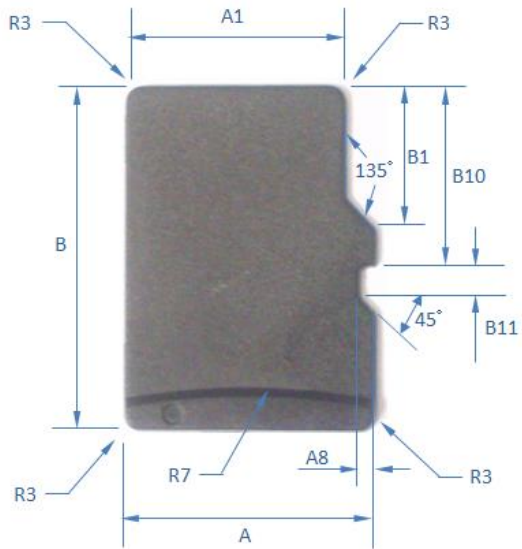
Ordering Information

Part Number	Package Including
EX8GUSDV30-PIDE	microSD Card x 1
EX16GUSDV30-PIDE	microSD Card x 1
EX32GUSDV30-IDE	microSD Card x 1
EX64GUSDV30-IDE	microSD Card x 1
EX128GUSDV30-IDE	microSD Card x 1
EX256GUSDV30-IDE	microSD Card x 1

Tera Bytes Written

Part Number	TBW
EX8GUSDV30-PIDE	155 TB
EX16GUSDV30-PIDE	320 TB
EX32GUSDV30-IDE	73 TB
EX64GUSDV30-IDE	145 TB
EX128GUSDV30-IDE	300 TB
EX256GUSDV30-IDE	610 TB

Mechanical Dimensions



Criteria of microSD

Unit: mm

Dimensions	Min	TYP	Max	Note
A	10.90	11.00	11.10	
A1	9.60	9.70	9.80	
A2		3.85		BASIC
A3	7.60	7.70	7.80	
A4		1.10		BASIC
A5	0.75	0.80	0.85	
A8	0.60	0.70	0.80	
B	14.90	15.00	15.10	
B1	6.13	6.23	6.33	
B4	0.42	0.52	0.62	
B5	2.80	2.90	3.00	
B7	0.20	0.30	0.40	
B8	1.00	1.10	1.20	
B10	7.80	7.90	8.00	
B11	1.10	1.20	1.30	
R3	0.70	0.80	0.90	
R7	29.50	30.00	30.50	
C	0.90	1.00	1.10	
C1	0.60	0.70	0.80	
C2	0.20	0.30	0.40	

Limited Warranty Policy

Exascend Corporation ("Exascend") warrants that Exascend's product, in its original sealed packaging, will be free from defects in materials and workmanship. Subject to the conditions and limitations set forth below, Exascend will either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This warranty is non-transferable and valid only for the original purchaser of the Exascend products, except where prohibited by law. An original or copy sales receipt or invoice is required to establish purchase date and original purchaser.

1. This warranty supersedes all other warranties and representations, whether oral or written, between you and Exascend. Exascend makes no other warranties, including any warranty of merchantability or fitness for a particular purpose, whether expressly or implied.
2. All warranties, whether express or implied, are limited to the periods of time set forth below. Some states and jurisdictions do not allow such exclusion of implied warranties, limitations or warranty period, so above restrictions may not apply to you.
3. Exascend may acknowledge or read and save the data and information (collectively, "Information") stored in the product during after services. Exascend hereby agrees that Exascend will not disclose any Information to any third parties, except Exascend's employees, who may need to access the Information, with or without your prior written consent.

Warranty Terms

Exascend offers three (3) years limited warranty for Industrial microSD Card.

This Limited Warranty will not apply to, and Exascend will have no liability or obligation with respect to, problems or damage resulting from any of the following: (i) accident, modification, neglect, abuse, careless or incorrect handling, misuse or improper operation, disassembly, misapplication or use in unusual physical environments or under operating conditions not approved by Exascend (including, but not limited to, use of the Product with an improper voltage supply); (ii) normal wear and tear; (iii) removal of label(s) or sticker(s) provided on or with the Product (including all warranty or quality-control stickers, product serial or electronic numbers); (iv) problems relating to or residing in non-Exascend hardware, software or other items with which the Product is used; (v) use in an environment, in a manner or for a purpose for which the Product was not designed or not in accordance with Exascend's published documentation; (vi) installation, modification, alteration or repair by anyone other than Exascend or its authorized representatives; (vii) problems that do not relate to materials or workmanship or that have an insignificant impairment on the use or operation of the Product; or (viii) problems related to consumables; (ix) Product purchased "AS-IS" or "with known faults, defects or problems." Additionally, Exascend will have no liability or obligation to recover any data in the Product.

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Customers must not use Exascend products in applications that the products failure or malfunction may cause death of life or body injury such as life support system or devices.

Exascend shall not be liable for any loss, injury or damage caused by use of the products in any of the following applications.

- **Medical related devices, life support, medical measurement devices, etc.**
- **Control device for train, ship, mass transportation system or automotive vehicles, etc.**
- **Specific applications, military/defense related equipment, aerospace, nuclear facility control system, etc.**
- **Safety system for disaster prevention/crime prevention, etc.**

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Contact Information

Exascend Sales Office

Address: Room 1, 6F, No. 288, Sec. 6, Civic Blvd., Xinyi Dist., Taipei City 110, Taiwan (R.O.C.)

General Support: +886-2-2726-6500

Fax: +886-2-2726-6126

Email: sales@exascend.com