



# SD300 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	Modify Storage Temperature	May, 2023
005	Update performance	June, 2023
006	Add 512GB	September, 2023

# SD300 series SD card

## (SDHC/SDXC UHS-I Class 10 V30 SD Card)

### **Product Specification**

- **Form Factor**
  - Secure Digital (SD Card)
- **Dimensions**
  - 24 mm x 32 mm x 2.1 mm (0.94" x 1.26" x 0.08")
- **Flash Type**
  - 3D TLC NAND flash
- **Capacity**
  - pSLC: 8 GB~16GB
  - 3D TLC: 32GB~512GB
- **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**
- **Built-in wire-protect switch**
- **Certificate**
  - CE / FCC
- **Support SMART tool**

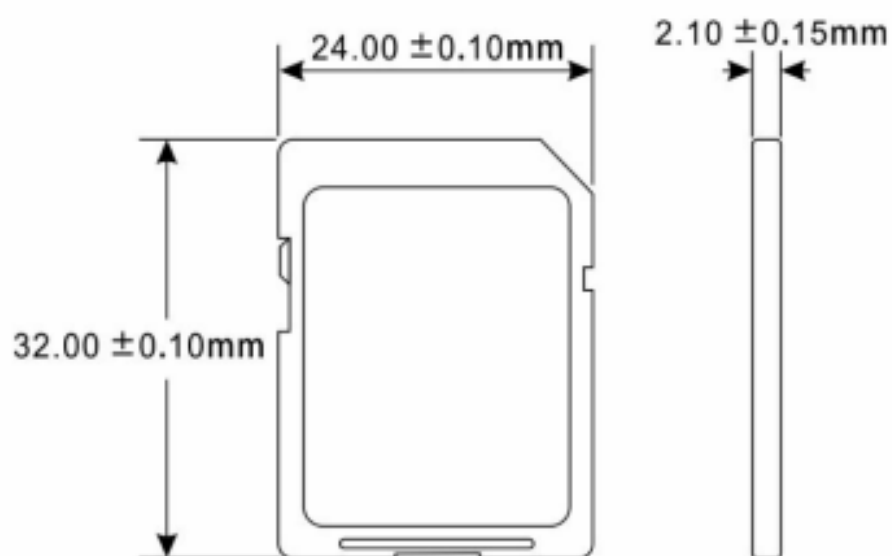
## Ordering Information

Part Number	Package Including
EX8GSDV30-PIDE	SD Card x 1
EX16GSDV30-PIDE	SD Card x 1
EX32GSDV30-IDE	SD Card x 1
EX64GSDV30-IDE	SD Card x 1
EX128GSDV30-IDE	SD Card x 1
EX256GSDV30-IDE	SD Card x 1
EX512GSDV30-IDE	SD Card x 1

## Tera Bytes Written

Part Number	TBW
EX8GSDV30-PIDE	155 TB
EX16GSDV30-PIDE	320 TB
EX32GSDV30-IDE	73 TB
EX64GSDV30-IDE	145 TB
EX128GSDV30-IDE	300 TB
EX256GSDV30-IDE	610 TB
EX512GSDV30-IDE	1210 TB

## Mechanical Dimensions



Physical Dimensions	Value	Unit
Length	32	mm
Width	24	mm
Thickness	2.1	mm

## 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.
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## Warranty Terms

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

## DISCLAIMER OF LIABILITY

Exascend Corp. reserves the right to make changes to specifications and product descriptions such as but not limited to numbers, parameters and other technical information contained herein without notice. Please contact Exascend Corp. to obtain the latest specifications. Exascend Corp. grants no warranty with respect to this datasheet, explicit or implied, and is not liable for direct or indirect damages. Some states do not grant the exclusion of incidental damages and as such this statement may not be valid in such states. The provisions of the datasheet do not convey to the purchaser of the device any license under any patent right or other intellectual property right of Exascend Corp.

**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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