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- Licensees
- Legal
- Request License

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IP Enforcement Activity

Terms of Use

Privacy Policy

**INTELLECTUAL PROPERTY (IP) INFORMATION**

**Intellectual Property Licensed Under SD Memory Card License Agreement (CLA) and SD Host/Ancillary Product License Agreement (HALA)**

The links below are for certain essential patents, design patents, logos, trademarks and copyrights covered by the CLA and HALA.

The CLA provides a license under the Essential Patent Claims of the SD Group, SD Group Specifications and SD Trademarks and Logos to make, use and sell SD Memory Cards as specified in the CLA.

The HALA provides a license under the Essential Patent Claims of the SD Group, SD Group Specifications and SD Trademarks and Logos to make, use and sell SD Host/Ancillary Products as specified in the HALA.

**Essential Patents**

The essential patents listed below have been evaluated by an independent expert who determined that the patent claims contained therein are necessarily and unavoidably infringed by a product that implements the SD technology in compliance with the SD Group Specifications. The essential patents listed may also have foreign counterparts. The list is for informational purposes only. It is offered by way of example and may not be exhaustive.

简体中文

Owner	Patent No.
Panasonic Corporation	US 6,590,778
	US 6,611,907
	US 6,789,192
	US 6,922,343
	US 7,143,261
	US 7,900,007
	US 8,161,225
	US 8,351,356
	US 8,576,704

Owner	Patent No.
SanDisk LLC (formerly known as SanDisk Corporation)	US 6,820,148
	US 6,948,016
	US 7,350,714
	US 8,019,942
	US 8,188,764
	US 8,392,614
US 8,799,653	

Owner	Patent No.
KIOXIA Corporation (formerly known as Toshiba Memory Corporation)	US 7,162,561
	US 7,886,123
	US 9,026,723
	US 9,383,792

Shown below is a list of design patents covered by the CLA. These design patents may also have foreign counterparts. The list is for informational purposes only. It is offered by way of example and may not be exhaustive.

SD Memory Cards		miniSD Cards		microSD Cards	
US Patent #	Issue Date	US Patent #	Issue Date	US Patent #	Issue Date

## SD-3C - The SD Memory Card - Intellectual Property (IP) Information

D446,525	2001/07/17	D517,072	2006/03/14	D525,248	2006/07/18
D444,473	2001/08/14	D533,556	2006/12/12	D523,435	2006/06/20
D445,111	2002/06/25	D510,935	2005/10/25	D538,286	2007/03/13
D459,355	2002/07/16	D505,959	2005/06/07	D537,081	2007/02/20
D460,456	2002/12/24	D507,795	2005/07/26	D525,978	2006/08/01
D467,586	2001/07/03	D510,579	2005/10/11	D525,623	2006/07/25

SD Memory Cards		SD High Capacity	
US Registration #	Date	US Registration #	Date
2,772,831	2003/10/14	3,598,575	2006/09/15
3,816,439	2010/07/13	4,422,734	2013/10/22
4,400,349	2013/09/10	4,422,735	2013/10/22

These SD trademarks and logos may have foreign counterparts.

The SD Group Specifications as shown below (excluding the Specification Addenda) are confidential information and the property of the SD Group. All rights are reserved except as set forth in the CLA and HALA.

<b>SD Physical Specification</b>	Part 1 Physical Layer Specifications Version 1.01 Released on April 15, 2001
<b>SD Logical Specification</b>	Part 2 File System Specifications Version 1.01 Released on April 15, 2001
<b>SD Security Specification</b>	Part 3 Security Specifications Version 1.01 Released on April 15, 2001
<b>SD Application Format</b>	Part 4 Audio Specifications Version 1.01 Released on April 15, 2001