

Products

Products

Industrial grade Solid-State Storage 🗸 SD/eMMC Bus Analyzer / Media Tester 🗸

Industrial grade Solid-State Storage

SolidGear provides high reliable, long life time flash memory storage for industrial usage and technical support.

We have variety of line up to meet your requirements such like use for OS Boot or Data transfer, type of fixed device or removable, and operating temperature of standard or industrial.

Customization to achieve compatibility with an existing systems is also available. Please call us for details. SolidGear's storage has two solutions; one is with SLC (Single Level Cell) NAND flash memory for higher reliability and endurance,

the other is with MLC (Multiple Level Cell) NAND flash memory for higher cost performance for cost sensitive applications.

We provide low capacity cards from 128Mbyte which are no longer available in retail market. SolidGear has won its customers' reputation in technical support at presales and post sales.

- Industrial grade SD Card
- Industrial grade microSD Card
- CompactFlash
- CFAST
- eMMC
- PCIe/NVMe SSD

(*) Please note that there are cases we may not accept requests.

Industrial Grade SD Card

- SolidGear's industrial grade SD Card is dedicatedly designed and manufactured for industrial applications which require different features than consumer applications such like DSC and DVC.
- SolidGear provides SLC (Single Level Cell) products suitable for applications that need higher endurance and/or quality, as well as MLC(Multiple Level Cell) products with fixed BOM (Bill of Material) as high cost vs. performance solution for cost sensitive applications.
- SolidGear's products maintain tractability and are tested 100% before shipment.
- SolidGear is a general member of SD Card Association (SDA).

Industrial & Embedded Solutions SD Card



Key Features

- Built-in ECC engine
- Power Loss Protection
- Auto Read Refresh
- Data Randomizer function
- High Performance for small size and random write
- Wear Leveling algorithm
- Support SMART tool for remaining lifespan check
- Support Customized Label design
- · Pre-recording the image data before shipping
- Fixed BOM (Same NAND Flash, Controller and Firmware)
- Support the normal case, w/o lock switch and rigid case

Specifications

2D NAND (Page Mode)

| Series name | TPSG-xxxM/xxxG Series | | |
|-------------|-----------------------|-------------|------------|
| Flash Type | 2D SLC | 2D SLC Mode | 2D MLC |
| Capacity | 128MB ~ 8GB | 2GB ~ 16GB | 4GB ~ 32GB |
| SD Spec. | SD3.01 | | |
| Interface | DS / HS / UHS-I / SPI | | |
| | 128MB : Class-2 | | |

| Speed Class | | 256MB : Class-4 512MB ~ 2GB : Class-6 4GB ~ 8GB : Class-10 | 2GB : Class-6 4GB ~ 16GB : Class-10 | Class-10 |
|----------------------------|--------------------|--|--|----------|
| Performance (MB/s) (Typ.) | Read | 13 | 13 | 13 |
| (4K Random) | Write | 5 | 5 | 5 |
| Performance (MB/s) (Typ.) | Read | 65 | 95 | 95 |
| (Sequential) | Write | 50 | 80 | 50 |
| Endurance (cycle | Endurance (cycles) | | 20,000 | 3,000 |
| Operating Voltage | (V) | 2.7 ~ 3.6 | | |
| Operating temperature (°C) | | -25 ~ +85 | | |
| Storage temperature (°C) | | -40 ~ +85 | | |
| Environment Spec. | | RoHS / CE / FCC / UL | | |

2D NAND (Block Mode)

| Series name | | TPSG-xxxM/xxxG Series | | | | |
|----------------------------|-----------------------|--|-----------------------|----------------------|--|--|
| Flash Type | | 2D SLC | 2D SLC Mode | 2D MLC | | |
| Capacity | | 128MB ~ 32GB | 2GB ~ 64GB | 4GB ~ 128GB | | |
| SD Spec. | | SD3.01 | | | | |
| Interface | | | DS / HS / UHS-I / SPI | | | |
| Speed Class | | 128MB : Class-2 256MB : Class-4 2GB : Class-6 Class-6 512MB ~ 2GB : Class-6 4GB ~ 64GB : Class-10 Class 4GB ~ 32GB : Class-10 Class-10 Class | | Class-10 | | |
| Performance (MB/s) (Typ.) | Read | 65 | 95 | 95 | | |
| (Sequential) | Write | 55 | 90 | 90 | | |
| Endurance (cycle | s) | 60,000 | 20,000 | 3,000 | | |
| Operating Voltage | Operating Voltage (V) | | 2.7 ~ 3.6 | | | |
| Operating temperature (°C) | | -25 ~ +85 | | | | |
| Storage temperature | e (°C) | -40 ~ +85 | | | | |
| Environment Spe | с. | RoHS / CE / FCC / UL | | RoHS / CE / FCC / UL | | |

3D NAND

| Series name | TPSG-xxxM/xxxG Series | | |
|-------------|-----------------------|--------------|--|
| Flash Type | 3D SLC Mode | 3D TLC | |
| Capacity | 16GB ~ 128GB | 64GB ~ 256GB | |
| SD Spec. | SD6.1 | | |
| Interface | DS / HS / UHS-I / SPI | | |
| Speed Class | Class-10 | | |
| | 1 | | |

| Application Speed Class | | A2 | |
|----------------------------|-------|----------------------|-------|
| Video Speed Cla | SS | V30 | |
| Performance (MB/s) (Typ.) | Read | 95 | |
| (Sequential) | Write | 85 | |
| Endurance (cycles) | | 30,000 | 3,000 |
| Operating Voltage (V) | | 2.7 ~ 3.6 | |
| Operating temperature (°C) | | -25 ~ +85 | |
| Storage temperature (°C) | | -40 ~ +85 | |
| Environment Spec. | | RoHS / CE / FCC / UL | |

microSD card for enterprise OEM and industrial market

SolidGear provides high quality microSD cards for enterprise and industrial market.
SolidGear's products maintain traceability and are 100% tested before shipment, which gives a customer confidence on the products. Line up includes SLC and MLC NAND flash memory products and extended temperature products.

Industrial & Embedded Solutions MicroSD Card



Key Features

- Built-in ECC engine
- Power Loss Protection
- Auto Read Refresh
- Wear Leveling algorithm
- Pre-recording the image data before shipping
- Fixed BOM (Same NAND Flash, Controller and Firmware)
- Support SMART tool for remaining lifespan check

Specifications

2D NAND (Page Mode)

| Series name | TPSG-Mxxx Series | | |
|-------------|-----------------------|-------------|------------|
| Flash Type | 2D SLC | 2D SLC Mode | 2D MLC |
| Capacity | 128MB ~ 2GB | 2GB ~ 16GB | 4GB ~ 32GB |
| SD Spec. | SD3.01 | | |
| Interface | DS / HS / UHS-I / SPI | | |
| | | | |

| Speed Class | | 128MB : Class-2 256MB : Class-4 512MB ~ 2GB : Class-6 | 2GB : Class-6 4GB ~ 16GB : Class-10 | Class-10 | |
|---------------------------|----------------------------|---|--|----------|--|
| Performance (MB/s) (Typ.) | Read | 13 | 13 | 13 | |
| (4K Random) | Write | 5 | 5 | 5 | |
| Performance (MB/s) (Typ.) | Read | 20 | 95 | 95 | |
| (Sequential) | Write | 20 | 85 | 50 | |
| Endurance (cycle | Endurance (cycles) | | 20,000 | 3,000 | |
| Operating Voltage | (V) | 2.7 ~ 3.6 | | | |
| Operating temperatur | Operating temperature (°C) | | -25 ~ +85 | | |
| Storage temperature (°C) | | -40 ~ +85 | | | |
| Environment Spec. | | RoHS / CE / FCC / UL | | | |

2D NAND (Block Mode)

| Series name | | TPSG-Mxxx Series | | | | |
|------------------------------------|-----------------------|---|--|----------------------|--|--|
| Flash Type | | 2D SLC | 2D SLC Mode | 2D MLC | | |
| Capacity | | 128MB ~ 2GB | 2GB ~ 32GB | 4GB ~ 64GB | | |
| SD Spec. | | SD3.01 | | | | |
| Interface | | | DS / HS / UHS-I / SPI | | | |
| Speed Class | | 128MB : Class-2 256MB : Class-4 512MB ~ 2GB : Class-6 4GB : Class-10 | 2GB : Class-6 4GB ~ 16GB : Class-10 | Class-10 | | |
| Performance (MB/s) (Typ.) | Read | 35 | 95 | 95 | | |
| (Sequential) | Write | 20 | 90 | 90 | | |
| Endurance (cycle | s) | 60,000 | 20,000 | 3,000 | | |
| Operating Voltage | Operating Voltage (V) | | 2.7 ~ 3.6 | | | |
| Operating temperature (°C) | | -25 ~ +85 | | | | |
| Storage temperature (°C) -40 ~ +85 | | | | | | |
| Environment Spe | с. | RoHS / CE / FCC / UL | | RoHS / CE / FCC / UL | | |

3D NAND

| TPSG-Mxxx Series | | |
|-----------------------|--|--|
| 3D SLC Mode | 3D TLC | |
| 16GB ~ 128GB | 16GB ~ 256GB | |
| SD6.1 | | |
| DS / HS / UHS-I / SPI | | |
| Class-10 | | |
| | 3D SLC Mode 16GB ~ 128GB SD DS / HS / U | |

| Application Speed Class | | A2 | |
|--|-------|------------|-------|
| Video Speed Class | | V30 | |
| Performance (MB/s) (Typ.) | Read | 95 | |
| (Sequential) | Write | 85 | |
| Endurance (cycles) | | 30,000 | 3,000 |
| Operating Voltage | (V) | 2.7 ~ 3.6 | |
| Operating temperature (°C) | | -25 ~ +85 | |
| Storage temperature (°C) | | -40 ~ +85 | |
| Environment Spec. RoHS / CE / FCC / UL | | / FCC / UL | |

CompactFlash

CompactFlash is one of the most popular memory cards used in industrial market.

CompactFlash has suitable features for industrial applications such like industrial standard interface,

PATA (IDE mode) and PCMICA mode, two peace connector that gives CompactFlash ruggedness for shock and vibration.

Industrial & Embedded Solutions CompactFlash Card



Key Features

- SLC NAND Flash
- Hardware ECC algorithm
- Corresponding for Read Disturbance
- Data Randomizer function
- High Performance for small size and random write
- Power loss protection
- Wear Leveling algorithm
- Fit the customer's CIS or CHS size and Label design
- Pre-recording the image data before shipping
- Fixed BOM (Same NAND Flash, Controller and Firmware)
- Support SMART tool for remaining lifespan check
- Support Vendor commands

Specifications

| Series name | SGCF Series | |
|---------------|-------------|--|
| Flash Type | 2D SLC | |
| Transfer mode | Ultra DMA 4 | |

| Interface | | PCMCIA 2.1 / CF 4.1 | | |
|-----------------------------------|-------|---------------------|-----------------|--|
| Channel | | Single (1GB, 2GB) | Dual (4GB, 8GB) | |
| | Read | 20 | 40 | |
| Performance (MB/s) (Max.) | Write | 10 | 30 | |
| | Sleep | 1.2 | 1.7 | |
| Power Consumption (mA) (T yp.) | Read | 70 | 125 | |
| 36.) | Write | 60 | 120 | |
| Operating Voltage | (V) | 3.3 / 5.0 | | |
| Operating temperature (°C) | | -40 ~ 85°C | | |
| Dimensions (mm) | | 42.8 x 36.4 x 3.3 | | |
| Environment Spec. | | RoHS / CE / FCC | | |

CFAST

CFAST is a standard adopted by CompactFlash Association (CFA) which has SATA interface.

Industrial & Embedded Solutions CFast Card



Key Features

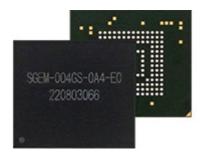
- Built-in ECC engine
- Power Loss Protection
- Corresponding for Read Disturbance
- Wear Leveling algorithm
- Support Trim and NCQ
- Support DEVSLP and DIPM/HIPM mode
- Pre-recording the image data before shipping
- Fixed BOM (Same NAND Flash, Controller and Firmware)
- Support SMART tool for remaining lifespan check
- Support Customized Label design

Specifications

| Series name | SGCS Series | | | | |
|-------------|------------------|-------------|--------------|------------|--|
| Flash Type | 2D SLC Mode | 2D MLC | 3D SLC Mode | 3D TLC | |
| Capacity | 8GB ~ 128GB | 8GB ~ 256GB | 20GB ~ 160GB | 64GB ~ 1TB | |
| Interface | SATAIII (Rev3.0) | | | | |

| Borformance (MB/c) (Max.) | Read | 530 | 530 | 530 | 420 | | |
|----------------------------------|--------------------------------|-------------------|-------------------|--------|-------|--|--|
| Performance (MB/s) (Max.) | Write | 360 | 210 | 510 | 320 | | |
| | ldle | 110 | 110 | 165 | 275 | | |
| Power Consumption (mA) (Typ.) | Read | 130 | 115 | 295 | 445 | | |
| | Write | 230 | 260 | 275 | 455 | | |
| Endurance (cycle | s) | 20,000 | 3,000 | 30,000 | 3,000 | | |
| Operating Voltage | (V) | | 3 | .3 | | | |
| Operating temperatur | e (°C) | | 0 ~ 70 / -40 ~ 85 | | | | |
| Storage temperature | Storage temperature (°C) -55 ~ | | -55 ~ 95 -40 ~ 85 | | | | |
| Dimensions (mm) | | 42.8 x 36.4 x 3.3 | | | | | |
| Environment Spec. | | RoHS / CE / FCC | | | | | |

Industrial & Embedded Solutions eMMC



Key Features

- 100 and 153-ball BGA Package
- Complies with JEDEC eMMC V4.5 and v5.1 Standard
- Power Loss Protection
- Wear Leveling algorithm
- Enhanced user data area
- Support Firmware update
- Support secure erase and trim commands
- Support secure bad block erase command
- Support Multiple partition
- Fixed BOM (Same NAND Flash, Controller and Firmware)
- Support SMART tool for remaining lifespan check

Specifications

| Series name | | | | | SGE |
|--------------------|----------|----------------------------|---------------|-------------|--------|
| Flash Type | | 2D SLC Mode | 2D MLC | 2D SLC Mode | 2D MLC |
| Capacity | Capacity | | 2~4 8 2~16 8~ | | |
| Interface | | HS200 / HS400 JEDEC 5.0 | | | |
| Performance (MB/s) | Read | 280 | 280 | 245 | 245 |
| (Max.) | Write | 105 | 85 | 140 | 140 |
| | Sleep | 0.07 | 0.07 | 0.12 | 0.12 |

| Power Consumption (mA) (Vccq / Vcc) (Typ.) | Read | 165 / 80 | 165 / 80 | 200 / 40 | 200 / 40 |
|---|-----------------|-----------|--|------------------|-----------|
| | Write | 90 / 50 | 90 / 50 | 115 / 70 | 105 / 125 |
| Package (Ball) | - | | FBGA | (153) | <u>.</u> |
| Operating Voltage | (V) | | Vcc : 3.3V、 \ | /ccq : 1.8 / 3.3 | |
| Operating temperatur | e (°C) | -25 ~ +85 | | -40 ~ +85 | |
| Storage temperature | e (°C) | | -40 ~ | - +85 | |
| Dimensions (mm | Dimensions (mm) | | FBGA (153) : 1 | 1.5 x 13.0 x 1.0 | |
| Functions | Functions | | Wear Leveling / SMART / Field Firmware Update / Security Erase / Trim Command on State Awareness / Power off Notification for sleep | | |
| Environment Spe | c. | RoHS | | | |
| | | | | | |

Industrial Solutions PCIe/NVMe SSD



Key Features

- Power Loss Protection
- Wear Leveling function
- Bad Block Management
- Supports Trim and NCQ

Specifications

| ľ | PCle | Gen3 | x 2 | |
|---|------|------|-----|--|
|---|------|------|-----|--|

| Series name | | SGPD Series | | | | |
|---------------------|------------|--------------------------|--------------------------|-----------------|---------------|--------|
| Flash Type | | | | 3D-TLC | | |
| Capacity | | 120GB | 240GB | 480GB | 960GB | 1920GB |
| Performance | Seq. Read | 1,130 | 1,630 | 1,615 | 1,605 | 1,440 |
| (MB/s) (Max.) | Seq. Write | 535 | 1,035 | 1,270 | 1,355 | 1,365 |
| Power Consumption | Active | 400 | 545 | 595 | 615 | 685 |
| (mA) (Max.) | ldle | 135 | 140 | 140 | 140 | 140 |
| Operating temperatu | re (°C) | | - | - 40 ~ + 85°C | | - |
| Interface | Interface | | PCIe Gen3 x 2 / NVMe 1.3 | | | |
| Form factor | | M.2 Type 2242 M.2 Type 2 | | | M.2 Type 2280 | |
| Environment Spe | ec. | | | RoHS / CE / FCC | | |

[PCle Gen3 x 4]

Series name

| Flash Type | | 3D-TLC | | | | | |
|---------------------|------------|-----------------|-------------|--------------|---------------|--|--|
| Capacity | | 240GB | 480GB | 960GB | 1920GB | | |
| Performance | Seq. Read | 2,725 | 3,525 | 3,530 | 2,505 | | |
| (MB/s) (Max.) | Seq. Write | 1,125 | 2,135 | 2,745 | 2,260 | | |
| Power Consumption | Active | 1,010 | 1,250 | 1,370 | 1,315 | | |
| (mA) (Max.) | ldle | 320 | 325 | 325 | 315 | | |
| Operating temperatu | ire (°C) | | - 40 ~ | + 85°C | | | |
| Interface | | | PCle Gen3 x | 4 / NVMe 1.3 | | | |
| Form factor | | М.2 Туре 2280 | | | М.2 Туре 2280 | | |
| Environment Sp | ec. | RoHS / CE / FCC | | | | | |

Industrial Solutions SATA SSD



Key Features

- Power Loss Protection
- Wear Leveling function
- Bad Block Management
- Supports Trim and NCQ
- Supports DEVSLP and DIPM/HIPM mode
- Supports Customized Label design
- Supports SMART tool for remaining lifespan check

Specifications

2.5inch

| Series name SGD5 | | | Series | | |
|---------------------------|-------|-------------|-------------|-----------|------------|
| Flash Type | | SLC | 2D SLC Mode | 2D MLC | 3D TLC |
| Capacity | | 8GB ~ 256GB | 8GB ~ 512GB | 8GB ~ 2TB | 32GB ~ 8TB |
| Performance (MB/s) (Typ.) | Read | 520 | 530 | 520 | 520 |
| (Sequential) | Write | 360 | 450 | 350 | 510 |
| Power Consumption (mA) (T | Read | 186 | 351 | 708 | 984 |
| ур.) | Write | 220 | 457 | 1,155 | 1,140 |
| TBW (TB) | | 13,636 | 9,091 | 5,237 | 21,818 |
| External DRAM | | Option | Option | Option | Option |
| Channels | | 2/4 | 1/2/4 | 1/2/4 | 1/2/4 |
| Capacitor | | Option | Option | Option | Option |

| Security function | Option | - | Option | Option | |
|----------------------------|---------------------|---|--------|--------|--|
| Operating Voltage (V) | 5.0 ± 5% | | | | |
| Operating temperature (°C) | 0 ~ +70 / -40 ~ +85 | | | | |
| Storage temperature (°C) | -55 ~ +95 | | | | |
| Interface | SATA3.0 (6Gbps) | | | | |
| Environment Spec. | RoHS / CE / FCC | | | | |

mSATA

| Series name | | | SGDM Series | | | | |
|---------------------------|----------------------------|-----------------|-------------|-----------|------------|--|--|
| Flash Type | | SLC | 2D SLC Mode | 2D MLC | 3D TLC | | |
| Capacity | | 4GB ~ 64GB | 8GB ~ 256GB | 8GB ~ 1TB | 32GB ~ 1TB | | |
| Performance (MB/s) (Typ.) | Read | 525 | 560 | 520 | 555 | | |
| (Sequential) | Write | 345 | 460 | 445 | 335 | | |
| Power Consumption (mA) (T | Read | 442 | 466 | 437 | 436 | | |
| ур.) | Write | 473 | 865 | 1,031 | 589 | | |
| TBW (TB) | TBW (TB) | | 4,545 | 2,663 | 2,697 | | |
| External DRAM | | Option | Option | Option | Option | | |
| Channels | | 2/4 | 1/2/4 | 1/2/4 | 1/2/4 | | |
| Security function | I | - | - | Option | Option | | |
| Operating Voltage | (V) | | 3.3 ± | ± 5% | | | |
| Operating temperatur | Operating temperature (°C) | | 0 ~ +70 / | -40 ~ +85 | | | |
| Storage temperature | (°C) | -55 ~ +95 | | | | | |
| Interface | Interface SATA3.0 (6Gbps) | | | | | | |
| Environment Spe | C. | RoHS / CE / FCC | | | | | |

m.2

| Series name | | SGDD Series | | | | |
|---------------------------|-------|-------------|-------------|-----------|------------|--|
| Flash Type | | SLC | 2D SLC Mode | 2D MLC | 3D TLC | |
| Capacity | | 8GB ~ 256GB | 8GB ~ 512GB | 8GB ~ 1TB | 32GB ~ 2TB | |
| Performance (MB/s) (Typ.) | Read | 520 | 530 | 530 | 560 | |
| (Sequential) | Write | 360 | 450 | 450 | 510 | |
| Power Consumption (mA) (T | Read | 560 | 355 | 525 | 624 | |
| ур.) | Write | 670 | 370 | 1,390 | 799 | |
| TBW (TB) | | 13,636 | 9,091 | 2,663 | 2,662 | |
| External DRAM | | Option | Option | Option | Option | |
| Channels | | 2 / 4 | 1/2/4 | 1/2/4 | 1/2/4 | |

| Security function | Option | - | Option | Option | |
|----------------------------|---------------------|---|--------|--------|--|
| Operating Voltage (V) | 3.3 ± 5% | | | | |
| Operating temperature (°C) | 0 ~ +70 / -40 ~ +85 | | | | |
| Storage temperature (°C) | -55 ~ +95 | | | | |
| Interface | SATA3.0 (6Gbps) | | | | |
| Environment Spec. | RoHS / CE / FCC | | | | |

SD/eMMC Bus Analyzer / Media Tester

A host tester is a verification tester designed for software developers and QA engineers of memory card compatible devices. It can mainly be used for verifying the card access firmware of the host device in accordance with the test specification.

The test program built into the application software analyzes the bus communication between the host and memory card and judges whether or not the access conforms to the specification. It provides significant reduction of verification test and debugging times, compared to analyses performed using a conventional logic analyzer.

A card tester is a verification tester designed for card developers and QA engineers. A card tester can measure card performance. A user can issue any SD command with any sequence by using access library to check error handling.

| | SGDK350A | SGDK320A | SGDK330B | SGDK400 |
|-------------|--------------|-------------------------------------|----------|----------|
| Tester Type | Media Tester | Analyzer Host Tester Emulator | Analyzer | Analyzer |
| SD I/F | UHS-I | UHS-I | UHS-I | UHS-II |
| eMMC I/F | HS200 | HS200 | HS400 | - |

SD Host Tester / SD/eMMC Analyzer / SD/eMMC Media Tester

SGDK330B (SD/eMMC Analyzer)

SGDK330B has SD Analyzer and eMMC Analyzer Functions. SGDK330B supports SDR104 and eMMC

HS400(ver5.1).

For details, refer to SGDK330B SD/eMMC Analyzer .

SGDK330A (SD/eMMC Analyzer)

SGDK330A has SD Analyzer and eMMC Analyzer Functions. SGDK330A supports SDR104 and eMMC ver4.51.

SGDK320A (SD Host Tester)

SGDK320A has SD Emulator, SD Host Tester, SD Analyzer and eMMC Analyzer functions. This product is designed for Host product compliant to "SD Memory Card Physical Layer Specification Version 3.01" standard. This product covers the test contents of Test Specification Version 3.00 and Supplement Note. This product supports SDR104 and eMMC ver4.51 (Analyzer).

For details, refer to SGDK320A SD Host Tester (PDF 502KB) .

SGDK400 (UHS-II Analyzer)

SGDK400 is Analyzer for UHS-II Analyzer protocol.

For details, refer to Brochure SGDK400 (PDF 454KB).

SGDK320A/330A/330B/400 support page is here. Please contact us if you want to access this page.

SGDK350A (SD Card / eMMC Media Tester)

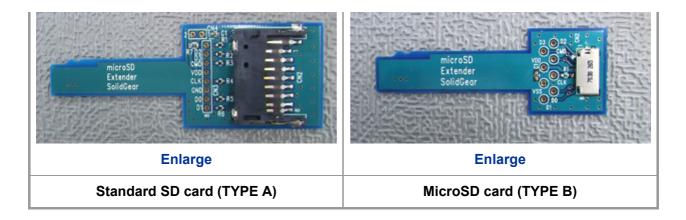
"SD Memory Card Physical Layer Specification Version 3.01" standard,

and the UHS-I interface(SDR12,25,50,104,DDR50) and eMMC Version 5.1. Application software can measure Speed Class from 2 to 10 for SDSD, SDHC and SDXC. It has also function of general measuring performance(sequential and random access). Accessing library to issue any SD Command with any sequence is provided.

For details, refer to Brochure SGDK350A. (PDF 348KB).

MicroSD card Bus Extender

Bus Extender is a bus extension device for observing the waveform of the bus signals between MicroSD card compatible devices (such as mobile terminals) and the MicroSD card using a logic analyzer.



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