STOP **Order Discontinued as of September 30, 2009**

(AXA1)

Panasonic
ideas for life

PUSH-IN, LIFT-OUT CONSTRUCTION REALIZED FOR STABLE miniSD™ CARD INSERTION AND REMOVAL

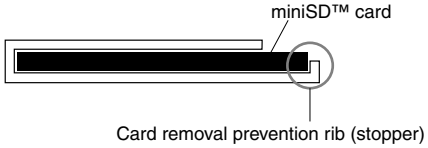
ADAPTER FOR miniSD™ CARD

Compliance with RoHS Directive

FEATURES

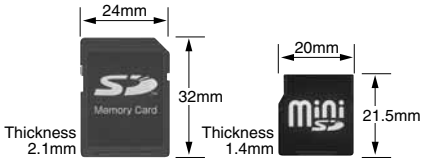
1. Push-in, lift-out construction realized for stable miniSD™ card insertion and removal

The structure is designed so that when removing the adapter from an SD socket, a card removal prevention rib at the rear of the adapter will prevent only the miniSD™ card from being removed.



What is a miniSD™ card?

To satisfy the trend toward applications that are getting thinner and more compact, the miniSD™ card, at 40% the volume, is an even more compact version of the SD memory card that is now enjoying a solid reputation in the market.

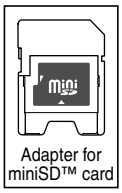


APPLICATIONS

Inserting a miniSD™ card inside this adapter allows you to use it in devices that use SD memory cards such as photo printers and PCs.

1. Mobile phone

2. DSC



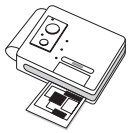
*Devices that use miniSD™ cards.

1. TV

2. PC

3. PDA

4. Photo printer



PRODUCT TYPES

Product name	Insertion and removal type	Logo printing area characteristics	Part No.	Packing quantity	
				Inner carton	Outer carton
Adapter for miniSD™ card	Push-in, lift-out type	Logo seal printing	AXA1A100	40 pieces (1 tray)	1,000 pieces (25 trays)

Note: This part number is for the customer evaluation sample. We will manufacture according to special order with specifications being met such as the inclusion of customer-specified logos in the logo printing area.

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SPECIFICATIONS

1. Characteristics (Complies with miniSD™ card and SDA standard)

Item		Specifications	Condition
Electrical characteristics	Rated current	0.5A/1 terminal	
	Contact resistance	Max. 100mΩ	Measured based on the HP4338B measurement method of JIS C 5402
	Insulation resistance	Min. 1,000MΩ (Initial)	Using 500V DC megger (applied for 1 min.)
	Breakdown voltage	500V AC for 1 min. (Initial)	Rated voltage is applied for one minute and check for short circuit or damage with a detection current of 1 mA.
Mechanical characteristics	Vibration resistance	No current interruption for more than 0.1 μs	Frequency: 10 to 2,000 Hz Acceleration: 20.0 m/s²{2.0G} Measured while mated with SD memory card socket mounted on evaluation board.
	Insertion and removal force of miniSD™ card	Insertion force: Max. 40N {4.08kgf} Removal force: Min. 1N {0.10kgf}, Max. 40N {4.08kgf}	Force required for insertion and removal of miniSD™ card to and from miniSD™ adapter.
	Insertion and removal force of adapter	Insertion force: Max. 40N {4.08kgf} Removal force: Min. 1N {0.10kgf}, Max. 40N {4.08kgf}	Force required for insertion and removal into and out of SD memory card socket with a miniSD™ card mated.
Lifetime characteristics	Insertion and removal life of miniSD™ card and adapter	Insertion and removal life: 10,000 times Contact resistance after testing: Max. 100mΩ	Insertion and removal speed are at a rate of 400 times/hour or less.
Environment characteristics	Ambient temperature	–25°C to +85°C	No freezing or condensation in low temperatures
	Storage temperature	–40°C to +85°C (The allowable storage temperature is –40°C to +50°C if unopened from original packaging)	No freezing or condensation in low temperatures
	Humidity tolerance (mated condition)	Contact resistance: Max. 100mΩ Insulation resistance: Min. 100MΩ	MIL-STD-1344A, METHOD 1002 Temperature: 40±2°C, Humidity: 90 to 95%RH, Test time: 500 hours
Unit weight		1.40g	

2. Material and surface treatment

Portion	Material	Surface
Signal contact	Copper alloy	Contact portion: Ni plating on base, PdNi + Au plating on surface

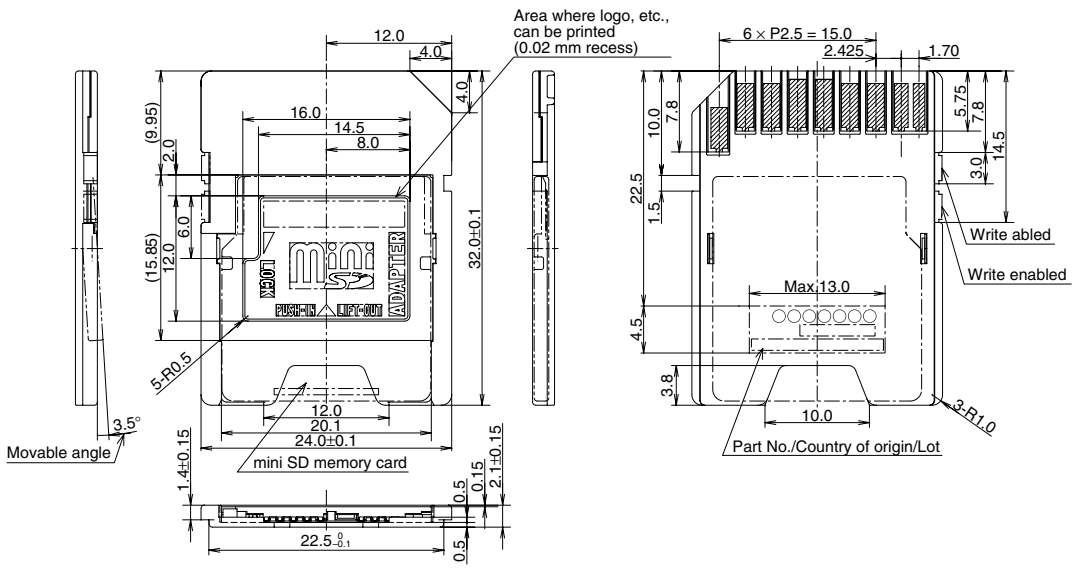
3. Applicable memory card and socket

Memory card	Socket
Cards complying with miniSD™ card specification Ver. 2.01.	Sockets complying with SD memory card specification Ver. 1.0.

DIMENSIONS (Unit: mm)

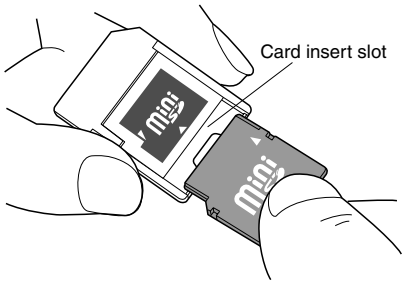
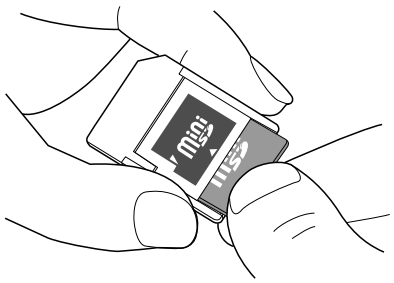
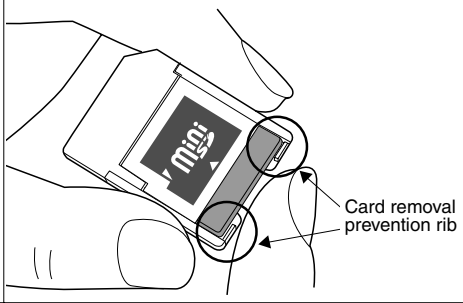
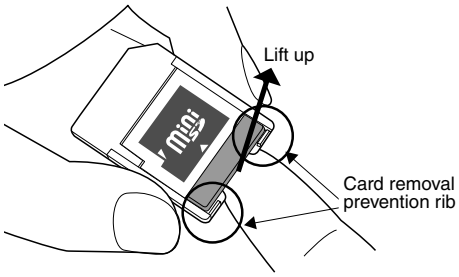
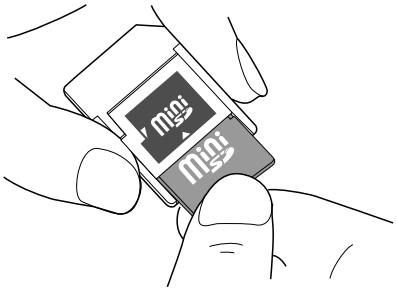
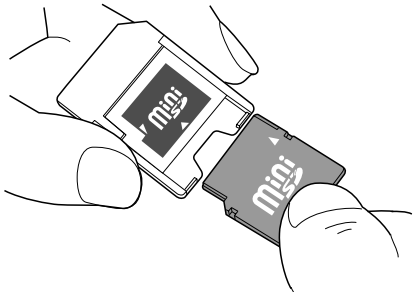
The CAD data of the products with a **CAD Data** mark can be downloaded from: http://panasonic-electric-works.net/ac

CAD Data



Note: An indication, such as a logo, specified by the customer can be marked on the SD logo-printed surface through a separate agreement on the specifications.

How to insert and remove card

Card insertion		
		
1) Gently holding both sides of the adapter, hold the rear of the card with your thumb and index finger and line up the front edge of the card with the card insertion slot of the adapter.	2) Insert the card into the card insertion slot while diagonally positioning the front edge of the card slightly down. The metal part should rise up slightly.	3) Lightly press the rear edge of the card with your index finger. The card is inserted when it can be pressed in no further.
Card removal		
		
1) Holding the adapter on both sides, use your other index finger to raise the rear edge of the card slightly up (about 0.5 mm).	2) With the card slightly raised, hold the rear edge of the card with your thumb and index finger and pull the card out of the adapter.	3) Removal is complete once the card has been completely pulled out of the adapter.

NOTES

1. Handling

1) Do not disassemble or renovate.
2) Do not apply strong impact, bend, drop, or allow the adapter to get wet.
3) Do not allow fingers or metal to contact the terminals.
4) Do not leave in places such as the following.
(1) Places of high temperature such as the inside of a car, when it might get hot, or places subject to direct sunlight.
(2) Places of high humidity and high dust content.
(3) Places where corrosive gas is present.
5) Be careful not to allow dust or foreign objects from entering the card insertion slot of the adapter.
6) Do not affix a label or sticker onto the adapter.
7) To write something on the adapter, please use an oil-based felt pen. Do not use a pencil or ballpoint pen, which can damage the adapter.
8) Do not use a deformed adapter or card. Doing so may prevent being able to remove an adapter from a SD memory card supporting device.
9) When using a SD memory card supporting device with an adapter that has a card inside it, never remove the card only. When removing the card from a device, always remove it together with the adapter.
10) Do not insert an adapter without card inserted into a SD memory card supporting device.
11) For instructions on how to install the adapter into a SD memory card supporting device and for other instructions on how to use it, please see the instruction manual for that device.
12) Incorrect use is a cause of device and card malfunction, and a cause of data corruption.

2. Data reading and writing

1) When using an adapter with a card inside, do not remove it or the card from the device and do not turn off the device power during data reading or writing. This can cause data corruption.
2) Matsushita Electric Works, Ltd., will bear absolutely no responsibility for loss of customer data or any other direct or indirect damage.
3) When using an adapter with a card inside it, switching the adapter's write protect button to the "LOCK" side will prevent data from being erased and saved. This can be used to prevent the accidental deletion of data.

For other details, please verify with the product specification sheets.