CENTON

S2-MSDHU1-32G-B

Centon OEM Micro SDHC Card A1, UHS1 Class U1, Extended Commercial, 32 GB

*Image may not represent actual product

General Specifications

Part Number	S2-MSDHU1-32G-B	**ECC**	Uncontrolled
Form Factor	Micro SD 6.0	**Voltage**	3.3V
Capacity	32 GB	**Min. Read Speed**	90MB/s*
Min. Bytes	30,923,764,531 bytes	**Min. Write Speed**	10MB/s*
Default Format	FAT 32	**Class**	UHS-I / A1 / U1 / Class 10
Pin Count	8pin	**Warranty**	1 Year
CPRM	V		

NAND Specifications

NAND Manufacturer	NOT CONTROLLED	**NAND Config**	NOT CONTROLLED
NAND Part Number	NOT CONTROLLED	**NAND Quantity**	NOT CONTROLLED
NAND Type	NOT CONTROLLED	**NAND Package**	NOT CONTROLLED
NAND Geometry	NOT CONTROLLED	**NAND Technology**	NOT CONTROLLED

Controller Specifications

Controller	AM2703	**Static Wear Level**	Enabled
Controller Mfg.	Asolid	**Dynamic Wear Level**	Enabled

Environment

Operating Temp	Extended (-25 to 85 C)	**Storage Temp**	Storage (-40 to +85 C)

*Speed tests conducted using TestMetrix 3300 Series Flash Tester.

For more information visit centon.com, email RFQ@centon.com or call toll-free: 800-234-9292

Pin Out Diagram
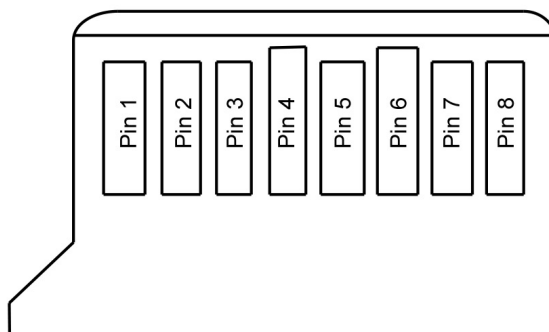
Figure 1: Contact Area

| Pin#	SD Mode			SPI Mode		
	Name	**Type[1]**	**Description**	**Name**	**Type**	**Description**
1	DAT2	I/O/PP	Data Line [Bit 2]	RSV		
2	CD/DAT3[2]	I/O/PP^T	Card Detect / Data Line [Bit 3]	CS	I	Chip Select (neg true)
3	CMD	PP	Command/Response	DI	I	Data In
4	V_{DD}	S	Supply voltage	V_{DD}	S	Supply voltage
5	CLK	I	Clock	SCLK	I	Clock
6	V_{SS}	S	Supply voltage ground	V_{SS}	S	Supply voltage ground
7	DAT0	I/O/PP	Data Line [Bit 0]	DO	O/PP	Data Out
8	DAT1	I/O/PP	Data Line [Bit 1]	RSV		
-				-		
-				-		
-				-		
-				-		

Table 1: Micro-Sized SD Contact Pad Assignment

1) S: Power supply; I: Input; O: output using push-pull drivers; PP: I/O using push pull drivers;
2) The extended DAI lines (DAT1-DAT3) are input on power up. They start to operate as DAT lines after SET_BUS_WIDTH command. The host shall keep its own DAT-1-DAT3 lines in input mode, as well, while they are not used. It is defined so, in order to keep compatibility to MultiMediaCards.
3) After power up this line is input with 50KOhm pull-up (can be used for card detection or SPI mode selection). The pull-up should be disconnected by the user, during regular data transfer, with SET_CLR_CARD_DETECT (ACMD42) command.

Physical Dimensions

VIEW A

DETAIL A

CONTACT SURFACE
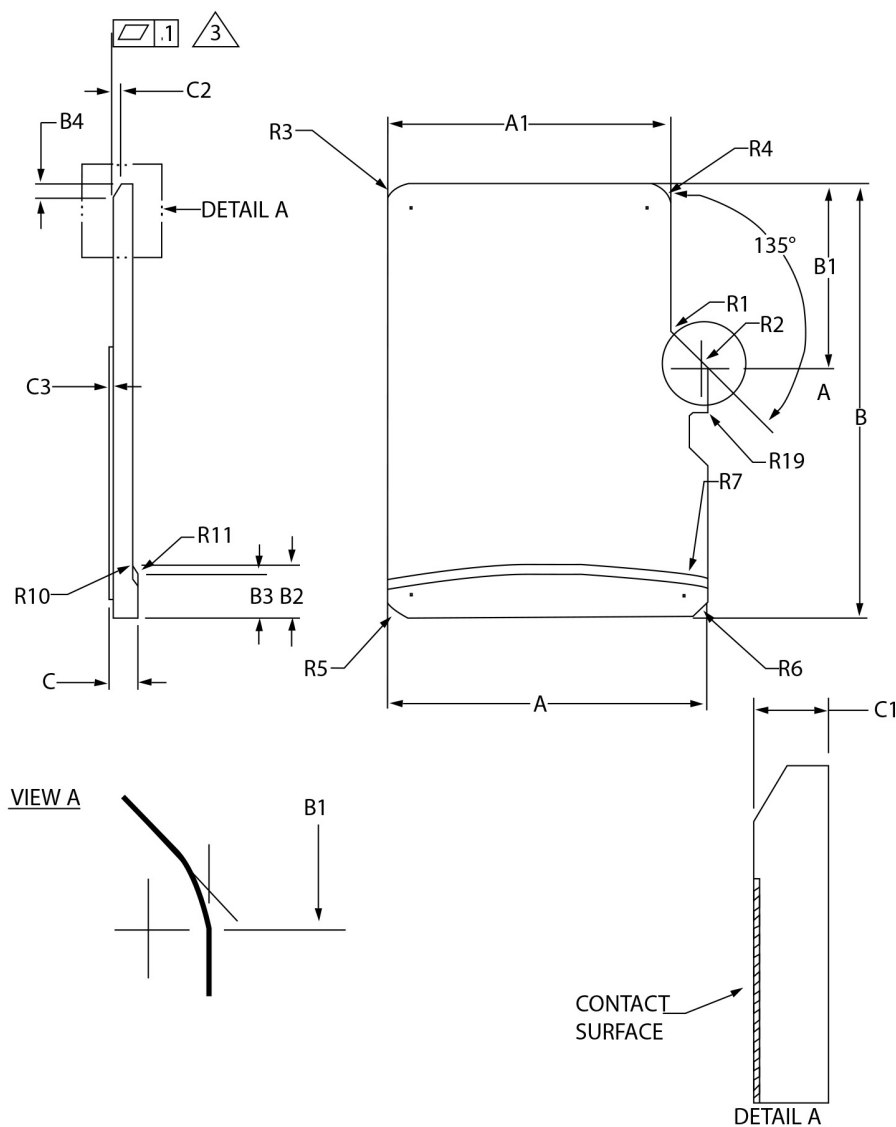
	COMMON DIMENSIONS			
SYMBOL	MIN	NOM	MAX	NOTE
A	10.90	11.00	11.10	
A1	9.60	9.70	9.80	
A2		3.85		BASIC
A3	7.60	7.70	7.80	
A4		1.10		BASIC
A5	0.75	0.80	0.85	
A6			8.50	
A7	0.90			
A8	0.60	0.70	0.80	
A9	0.80			
B	14.90	15.00	15.10	
B1	6.30	6.40	6.50	
B2	1.64	1.84	2.04	
B3	1.30	1.50	1.70	
B4	0.42	0.52	0.62	
B5	2.80	2.90	3.00	
B6	5.50			
B7	0.20	0.30	0.40	
B8	1.00	1.10	1.20	
B9	-	-	9.00	
B10	7.80	7.90	8.00	
B11	1.10	1.20	1.30	
C	0.90	1.00	1.10	
C1	0.60	0.70	0.80	
C2	0.20	0.30	0.40	
C3	0.00		0.15	
D1	1.00			
D2	1.00			
D3	1.00			
R1	0.20	0.40	0.60	
R2	0.20	0.40	0.60	
R3	0.70	0.80	0.90	
R4	0.70	0.80	0.90	
R5	0.70	0.80	0.90	
R6	0.70	0.80	0.90	
R7	29.50	30.00	30.50	
R10		0.20		
R11		0.20		
R17	0.10	0.20	0.30	
R18	0.20	0.40	0.60	
R19	0.05		0.20	

Functional Diagram

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