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1. Revision History

DATE	VERSION	REVISED PAGE NO.	Note
2012/07/13	1		First issue



2. General Specification

The Features of the Module is description as follow:

■ Module dimension: 86.2 x 24.7 x 6.0(MAX) mm3

■ View area: 72.3 x 11.84 mm2

Active area: 70.3 x 9.84 mm2

■ Number of Characters: 24 characters x 2 Lines

■ Dot size: 0.45 x 0.54 mm2

■ Dot pitch: 0.50x 0.59 mm2

■ Character size: 2.45 x 4.67 mm2

■ Character pitch: 2.95 x 5.17 mm2

■ LCD type: FSTN Positive Transflective

■ Duty: 1/17DUTY,1/5BIAS

■ View direction: 6 o'clock

■ Backlight Type: LED, White



Midas LCD Part Number System

MC COG 132033 A * 6 W * * - S N T L W * * 1 2 3 4 5 6 7 8 9 - 10 11 12 13 14 15 16

1 = MC: Midas Components

2 = **Blank:** COB (chip on board) **COG**: chip on glass

3 =No of dots (e.g. $240064 = 240 \times 64 \text{ dots}$) (e.g. $21605 = 2 \times 16 \text{ 5mm C.H.}$)

4 = Series

5 = Series Variant: A to Z - see addendum

6 = **3:** 3 o'clock **6:** 6 o'clock **9:** 9 o'clock **12:** 12 o'clock

7 = S: Normal (0 to + 50 deg C) W: Wide temp. (-20 to + 70 deg C) X: Extended temp (-30 + 80 Deg C)

8 = Character Set

Blank: Standard (English/Japanese)

C: Chinese Simplified (Graphic Displays only)

CB: Chinese Big 5 (Graphic Displays only)

H: Hebrew

 $\textbf{K:} \ European \ (std) \ (English/German/French/Greek)$

L: English/Japanese (special)

M: European (English/Scandinavian)

R: Cyrillic

W: European (English/Greek)

U: European (English/Scandinavian/Icelandic)

9 = **Bezel Height** (where applicable / available)

	T C D 1 + . T	Common	Array
	Top of Bezel to Top of PCB	(via pins 1	or Edge
	01 FCB	and 2)	Lit
Blank	9.5mm / not applicable	Common	Array
2	8.9 mm	Common	Array
3	7.8 mm	Separate	Array
4	7.8 mm	Common	Array
5	9.5 mm	Separate	Array
6	7 mm	Common	Array
7	7 mm	Separate	Array
8	6.4 mm	Common	Edge
9	6.4 mm	Separate	Edge
A	5.5 mm	Common	Edge
В	5.5 mm	Separate	Edge
D	6.0mm	Separate	Edge
\mathbf{E}	5.0mm	Separate	Edge
F	4.7mm	Common	Edge
G	3.7mm	Separate	$\widetilde{\mathbf{EL}}$

10 = T: TN S: STN B: STN Blue G: STN Grey F: FSTN F2: FFSTN

11 = **P:** Positive **N**: Negative

12 = **R:** Reflective **M:** Transmissive **T:** Transflective

13 = **Backlight: Blank:** Reflective **L:** LED

14 = Backlight Colour: Y: Yellow-Green W: White B: Blue R: Red A: Amber O: Orange G: Green RGB: R.G.B.

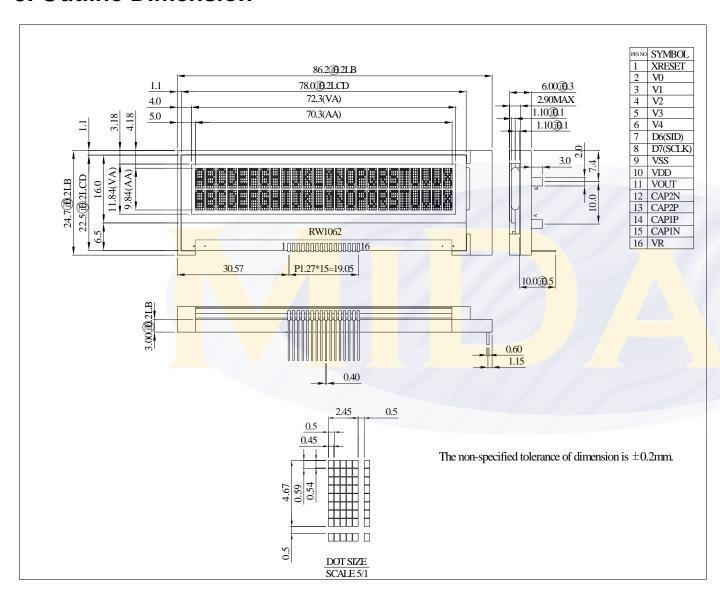
15 = Driver Chip: Blank: Standard I: I²C T: Toshiba T6963C A: Avant SAP1024B R: Raio RA8835

16 = Voltage Variant: e.g. 3 = 3v

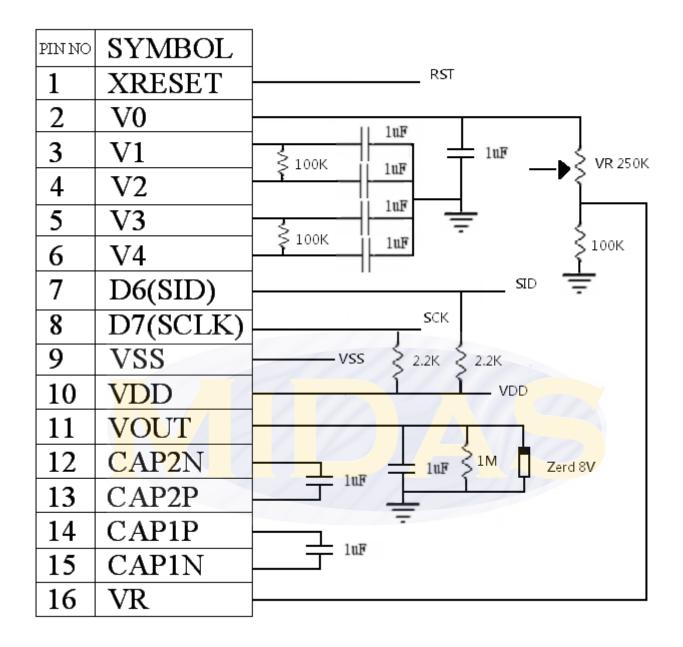
4. Interface Pin Function

Pin No.	Symbol	Level	Description
1	XRESET		Reset pin, Initialized to Low
2~6	V0~V4		Bias voltage level for LCD driving
7	D6(SID)		Serial input data
8	D7(SCLK)		Serial clock
9	VSS		GND
10	VDD	3.0/5.0	Power supply
11	VOUT		Voltage converter output voltage
12	CAP2N		External Canacitanas input
13	CAP2P		External Capacitance input, To use the voltage converter (2 times/ 3times), these
14	CAP1P		pins must be connected to the external capacitance.
15	CAP1N		chiemai capacitance.
16	VR		Reference voltage input to generate V0

5. Outline Dimension



Application schematic



INITIALIZE:

MOV	I2C_CONTROL,#00H	;WRITE COMMAND
MOV	I2C_DATA,#30H	;Function Set RE=0
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#30H	;Function Set RE=0
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#08H	;DISPLAY OFF
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#06H	;Entry Mode Set
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
LCALL	CGRAM	
MOV	I2C_CONTROL,#00H	
MOV	I2C_DATA,#34H	;Function Set RE=1
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#02H	;Standby Mode Set: (RE = 1)
LCALL	W <mark>RIT</mark> E_CODE	;NORMAL MODE
LCALL	DELAY_39uS	
MOV	I2C_DATA,#06H	;Entry Mode Set: $(RE = 1)$
LCALL	WRITE_CODE	;SEG NORMAL COM REVERSE
LCALL	DELAY_39uS	
MOV	I2C_DATA,#16H	;Booster on, Regulator on, Follower on
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#08H	;Extended Function Set ($RE = 1$)
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#08H	;Extended Function Set ($RE = 1$)
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_CONTROL,#00H	
MOV	I2C_DATA,#30H	;Function Set RE=0
LCALL	WRITE_CODE	
LCALL	DELAY_39uS	
MOV	I2C_DATA,#0CH	;DISPLAY ON, Cursor OFF, Cursor Blink OFF

LCALL WRITE_CODE

;LCALL DELAY_39uS

MOV I2C_DATA,#01H ;CLEAR DISPLAY

LCALL WRITE_CODE

LCALL DELAY_39uS

LCALL DELAY_39uS

RET



6.Absolute Maximum Ratings

Item	Symbol	Min	Тур	Max	Unit
Operating Temperature	T_OP	-20	_	+70	$^{\circ}\! C$
Storage Temperature	T _{ST}	-30	_	+80	$^{\circ}\!\mathbb{C}$
Input Voltage	Vı	-0.3	_	V _{DD} +0.3	V
Supply Voltage For Logic	V _{DD}	-0.3		5.5	V
LCD Driver Voltage	Vo	V _{SS} +7.0	4	Vss-0.3	V

7. Electrical Characteristics

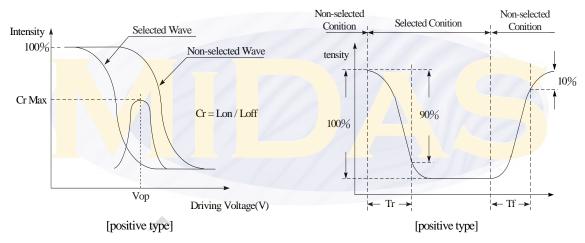
Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage For Logic	V _{DD} -V _{SS}			3.0/5.0		V
Supply Volt <mark>age</mark> For LCD	V _O -V _{SS}	Ta=-20°C Ta=25°C Ta=70°C	=	4.5 —		V V V
Input High Volt.	V _{IH}		0.7 V _{DD}	_	V_{DD}	V
Input Low Volt.	V_{IL}	_	-0.3	_	0.6	V
Output High Volt.	V _{OH}	_	0.75 V _{DD}	_	_	V
Output Low Volt.	V _{OL}	_	_	_	$0.2V_{DD}$	V
Supply Current(No include LED Backlight)	I _{DD}	_	_	0.92/ 2.01	_	mA

8.Optical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
View Angle	(V)θ	CR≧2	30	_	60	deg
7 1.5 1.7 1.1g.io	(Η)φ	CR≧2	-45	_	45	deg
Contrast Ratio	CR	_	_	5	_	_
Response Time	T rise	_	_	200	300	ms
	T fall	_	_	200	300	ms

Definition of Operation Voltage (Vop)

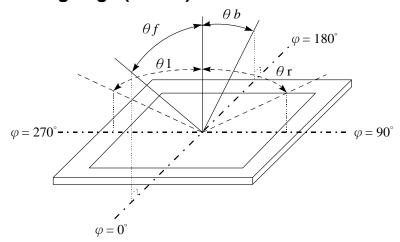
Definition of Response Time (Tr, Tf)



Conditions:

Frame Frequency: 64 HZ Driving Waveform: 1/N duty, 1/a bias

Definition of viewing angle(CR≥2)



9. INTERFACE WITH MPU IN BUS MODE

For serial interface data, bus lines (DB6 and DB7) are used. IIC interface

The IIC interface receives and executes the commands sent via the IIC Interface. It also receives RAM

data and sends it to the RAM.

The IIC Interface is for bi-directional, two-line communication between different ICs or modules. Serial data line SDA (DB6) must be connected to a positive supply via a pull-up resistor. Data transfer may be initiated only when the bus is not busy.

* When IIC interface is selected, the INF register must be set to "1".

BIT TRANSFER

One data bit is transferred during each clock pulse. The data on the SDA line must remain stable during the HIGH period of the clock pulse because changes in the data line at this time will be interpreted as a control signal. Bit transfer is illustrated in Fig.9.1

START AND STOP CONDITIONS

Both data and clock lines remain HIGH when the bus is not busy. A HIGH-to-LOW transition of the data line, while the clock is HIGH is defined as the START condition (S). A LOW-to-HIGH transition of the data line while the clock is HIGH is defined as the STOP condition (P). The START and STOP conditions are illustrated in Fig.9.2

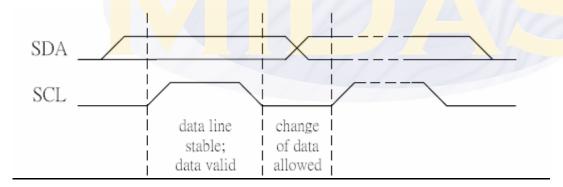


Fig .9.1 Bit transfer

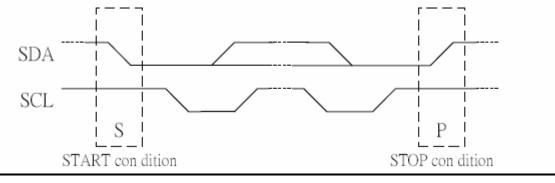


Fig .9.2 Definition of START and STOP conditions

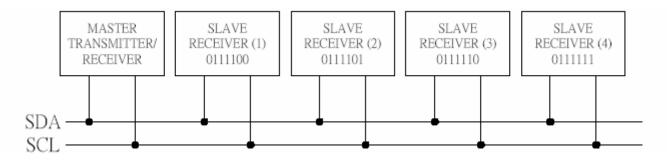


Fig .9.3 System configuration

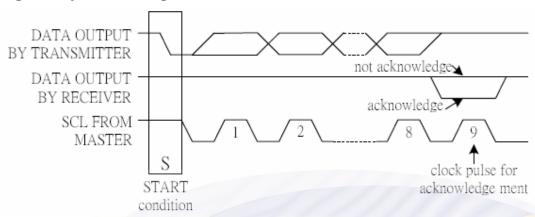


Fig .9.4 Acknowledgement on the 2-line Interface SYSTEM CONFIGURATION

The system configuration is illustrated in Fig.9.3

- · Transmitter: the device, which sends the data to the bus
- · Receiver: the device, which receives the data from the bus
- · Master: the device, which initiates a transfer, generates clock signals and terminates a transfer
- · Slave: the device addressed by a master
- · Multi-Master: more than one master can attempt to control the bus at the same time without corrupting the message
- · Arbitration: procedure to ensure that, if more than one master simultaneously tries to control the bus, only one is allowed to do so and the message is not corrupted
- · Synchronization: procedure to synchronize the clock signals of two or more devices.

ACKNOWLEDGE

Each byte of eight bits is followed by an acknowledge bit. The acknowledge bit is a HIGH signal put on the bus by the transmitter during which time the master generates an extra acknowledge related clock pulse. A slave receiver which is addressed must generate an Acknowledge after the reception of each byte. A master receiver must also generate an Acknowledge after the reception of each byte that has been clocked out of the slave transmitter. The device that acknowledges must pull-down the SDA line during the acknowledge clock pulse, so that the SDA line is stable LOW during the HIGH period of the Acknowledge related clock pulse (set-up and hold times must be taken into consideration). A master receiver must signal an end-of-data to the transmitter by not generating an Acknowledge on the last byte that has been clocked out

of the slave. In this event the transmitter must leave the data line HIGH to enable the master to generate a STOP condition. Acknowledgement on the IIC Interface is illustrated in Fig.9.4 **IIC Interface protocol**

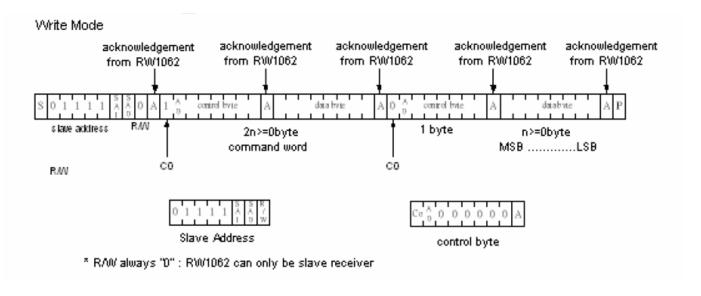
The RW1062 supports command, data write addressed slaves on the bus.

Before any data is transmitted on the IIC Interface, the device, which should respond, is addressed first. Four 7-bit slave addresses (0111100, 0111101, 0111110 and 0111111) are reserved for the RW1062. The least significant bit of the slave address is set by connecting the input DB0 and DB1 to either logic 0 (or logic 1 (VDD)).

The IIC Interface protocol is illustrated in Fig.9.5

The sequence is initiated with a START condition (S) from the IIC Interface master, which is followed by the slave address. All slaves with the corresponding address acknowledge in parallel, all the others will ignore the IIC Interface transfer. After acknowledgement, one or more command words follow which define the status of the addressed slaves.

A command word consists of a control byte, which defines Co and A0, plus a data byte. The last control byte is tagged with a cleared most significant bit (i.e. the continuation bit Co). After a control byte with a cleared Co bit, only data bytes will follow. The state of the A0 bit defines whether the data byte is interpreted as a command or as RAM data. All addressed slaves on the bus also acknowledge the control and data bytes. After the last control byte, depending on the A0 bit setting; either a series of display data bytes or command data bytes may follow. If the A0 bit is set to logic 1, these display bytes are stored in the display RAM at the address specified by the data pointer. The data pointer is automatically updated and the data is directed to the intended RW1062 device. If the A0 bit of the last control byte is set to logic 0, these command bytes will be decoded and the setting of the device will be changed according to the received commands. Only the addressed slave makes the acknowledgement after each byte. At the end of the transmission the IIC interface-bus master issues a STOP condition (P). If no acknowledge is generated by the master after a byte, the driver stops transferring data to the master.



*SA1,SA0 Always=0

Fig .9.5 2-line Interface protocol

Со		Last control byte to be sent. Only a stream of data bytes is allowed to follow. This stream may only be terminated by s STOP or RE-START condition.
	1	Another control byte will follow the data byte unless a STOP or RE-START condition is received.



Font table

RW1062 Font table (0A-001)

								- <u>\</u>		_						
67~4 63~0	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0000	[00]												×	***		
0001	CG RAM [01]															
0010	[02]													**		
0011	CG RAM [03]		₩													**
0100	[04]										•	ш				
0101	CG RAM [05]											***				
0110	CG RAM [06]															
0111	CG RAM [07]										*					
1000	CG RAM [00]															
1001	CG RAM [01]												*			
1010	CG RAM [02]		**											***		
1011	[03]										×	**				
1100	CG RAM [04]										**				*	
1101	[05]											×	**		LLLLL	
1110	CG RAM [06]											***				
1111	CG RAM [07]												×			

10. Backlight Information

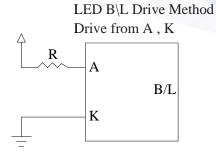
Specification

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Supply Current	ILED	43.2	48	75	mA	V=3.5V
Supply Voltage	V	3.4	3.5	3.6	V	
Reverse Voltage	VR	_	_	5	V	_
Luminous Intensity (Without LCD)	IV	570	613	_	CD/M ²	ILED=48mA
LED Life Time	_	_	50K	_	Hr.	ILED≦48mA
Color	White			1		1

Note: The LED of B/L is drive by current only; driving voltage is only for reference

To make driving current in safety area (waste current between minimum and maximum).

Note1:50K hours is only an estimate for reference.



11. Reliability

Content of Reliability Test (wide temperature, -20°C~70°C)

Environmental Test								
Test Item	Content of Test	Condition	Note					
High Temperature storage	Endurance test applying the high storage temperature for a long time.	80℃ 200hrs	2					
Low Temperature storage	-30℃ 200hrs	1,2						
High Temperature Operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	200hrs	-					
Low Temperature Operation	Endurance test applying the electric stress under low temperature for a long time.	-20℃ 200hrs	1					
High Temperature/ Humidity Operation	The module should be allowed to stand at 60℃,90%RH max For 96hrs under no-load condition excluding the polarizer, Then taking it out and drying it at normal temperature.	60℃,90%RH 96hrs	1,2					
Thermal shock res <mark>istance</mark>	The sample should be allowed stand the following 10 cycles of operation -20°C 25°C 70°C 30min 5min 30min 1 cycle	-20℃/70℃ 10 cycles	-					
Vibration test	Endurance test applying the vibration during transportation and using.	fixed amplitude: 15mm Vibration. Frequency: 10~55Hz. One cycle 60 seconds to 3 directions of X,Y,Z for Each 15 minutes	3					
Static electricity test	Endurance test applying the electric stress to the terminal.	VS=800V,RS= 1.5kΩ CS=100pF 1 time						

Note1: No dew condensation to be observed.

Note2: The function test shall be conducted after 4 hours storage at the normal temperature and humidity after remove from the test chamber.

Note3: Vibration test will be conducted to the product itself without putting it in a container.

12. Inspection specification

NO	Item	Criterion				
01	Electrical Testing	 1.1 Missing vertical, horizontal segment, segment contrast defect. 1.2 Missing character, dot or icon. 1.3 Display malfunction. 1.4 No function or no display. 1.5 Current consumption exceeds product specifications. 1.6 LCD viewing angle defect. 1.7 Mixed product types. 1.8 Contrast defect. 				0.65
02	Black or white spots on LCD (display only)	 2.1 White and black spots on display ≤0.25mm, no more than three white or black spots present. 2.2 Densely spaced: No more than two spots or lines within 3mm 				
03	LCD black spots, white spots, contaminatio n (non-display)	3.1 Round type Φ=(x + y) /		wing drawing		2.5
		3.2 Line type :	(As follow Length $$ $L \le 3.0$ $L \le 2.5$ $$	wing drawing) Width W≦0.02 0.02 <w≦0.03 0.03<w≦0.05="" 0.05<w<="" td=""><td>Acceptable Q TY Accept no dense 2 As round type</td><td>2.5</td></w≦0.03>	Acceptable Q TY Accept no dense 2 As round type	2.5
04	Polarizer bubbles	If bubbles are visible, judge using black spot specifications, not easy to find, must check in specify direction.		Size Φ $ Φ \le 0.20 $ $ 0.20 < Φ \le 0.50 $ $ 0.50 < Φ \le 1.00 $ $ 1.00 < Φ $ Total Q TY	Acceptable Q TY Accept no dense 3 2 0	2.5

NO	Item	Criterion					
NO 06	Glass crack	$\begin{array}{c} \text{Symbols:} \\ \text{x: Chip length} & \text{y: Chip width} & \text{z: Chip thickness} \\ \text{k: Seal width} & \text{t: Glass thickness} & \text{a: LCD side length} \\ \text{L: Electrode pad length} \\ \text{6.2 Protrusion over terminal:} \\ \text{6.2.1 Chip on electrode pad:} \\ \\ \hline y: \text{Chip width} & \text{x: Chip length} & \text{z: Chip thickness} \\ \hline y \leq 0.5 \text{mm} & \text{x} \leq 1/8 \text{a} & \text{0} < \text{z} \leq \text{t} \\ \\ \hline \text{6.2.2 Non-conductive portion:} \\ \\ \hline \end{array}$					
		$y: Chip \ width \qquad x: Chip \ length \qquad z: Chip \\ thickness \\ y \le L \qquad x \le 1/8a \qquad 0 < z \le t$ $\odot \ lf \ the \ chipped \ area \ touches \ the \ ITO \ terminal, \ over \ 2/3 \ of \ the \\ ITO \ must \ remain \ and \ be \ inspected \ according \ to \ electrode \\ terminal \ specifications.$ $\odot \ lf \ the \ product \ will \ be \ heat \ sealed \ by \ the \ customer, \ the \\ alignment \ mark \ not \ be \ damaged.$ $6.2.3 \ Substrate \ protuberance \ and \ internal \ crack.$ $y: \ width \qquad x: \ length \\ y \le 1/3L \qquad x \le a$					

NO	Item	Criterion	AQL
07	Cracked glass	The LCD with extensive crack is not acceptable.	2.5
08	Backlight elements	 8.1 Illumination source flickers when lit. 8.2 Spots or scratched that appear when lit must be judged. Using LCD spot, lines and contamination standards. 8.3 Backlight doesn't light or color wrong. 	0.65 2.5 0.65
09	Bezel	9.1 Bezel may not have rust, be deformed or have fingerprints, stains or other contamination. 9.2 Bezel must comply with job specifications.	2.5 0.65
10	PCB、COB	 10.1 COB seal may not have pinholes larger than 0.2mm or contamination. 10.2 COB seal surface may not have pinholes through to the IC. 10.3 The height of the COB should not exceed the height indicated in the assembly diagram. 10.4 There may not be more than 2mm of sealant outside the seal area on the PCB. And there should be no more than three places. 10.5 No oxidation or contamination PCB terminals. 10.6 Parts on PCB must be the same as on the production characteristic chart. There should be no wrong parts, missing parts or excess parts. 10.7 The jumper on the PCB should conform to the product characteristic chart. 10.8 If solder gets on bezel tab pads, LED pad, zebra pad or screw hold pad, make sure it is smoothed down. 10.9 The Scraping testing standard for Copper Coating of PCB X * Y<=2mm²	2.5 2.5 0.65 2.5 2.6 0.65 2.5 2.5 2.5
11	Soldering	 11.1 No un-melted solder paste may be present on the PCB. 11.2 No cold solder joints, missing solder connections, oxidation or icicle. 11.3 No residue or solder balls on PCB. 11.4 No short circuits in components on PCB. 	2.5 2.5 2.5 0.65

NO	Item	Criterion	AQL
12	General appearance	 12.1 No oxidation, contamination, curves or, bends on interface Pin (OLB) of TCP. 12.2 No cracks on interface pin (OLB) of TCP. 12.3 No contamination, solder residue or solder balls on product. 12.4 The IC on the TCP may not be damaged, circuits. 12.5 The uppermost edge of the protective strip on the interface pin must be present or look as if it causes the interface pin to sever. 12.6 The residual rosin or tin oil of soldering (component or chip component) is not burned into brown or black color. 12.7 Sealant on top of the ITO circuit has not hardened. 12.8 Pin type must match type in specification sheet. 12.9 LCD pin loose or missing pins. 12.10 Product packaging must the same as specified on packaging specification sheet. 12.11 Product dimension and structure must conform to product specification sheet. 	2.5 0.65 2.5 2.5 2.5 2.5 0.65 0.65 0.65

13. Precautions in use of LCD Modules

- 1. Avoid applying excessive shocks to the module or making any alterations or modifications to it.
- 2. Don't make extra holes on the printed circuit board, modify its shape or change the components of LCD module.
- 3. Don't disassemble the LCM.
- 4. Don't operate it above the absolute maximum rating.
- 5. Don't drop, bend or twist LCM.
- 6. Soldering: only to the I/O terminals.
- 7. Storage: please storage in anti-static electricity container and clean environment.
- 8. Midas have the right to change the passive components (Resistors, capacitors and other passive components will have different appearance and color caused by the different supplier.)
- 9. Midas have the right to change the PCB Rev.

14. Material List of Components for RoHs

1. Midas Components Ltd. hereby declares that all of or part of products, including, but not limited to, the LCM, accessories or packages, manufactured and/or delivered to your company (including your subsidiaries and affiliated company) directly or indirectly by our company (including our subsidiaries or affiliated companies) do not intentionally contain any of the substances listed in all applicable EU directives and regulations, including the following substances.

Exhibit A: The Harmful Material List

Material	(Cd)	(Pb)	(Hg)	(Cr6+)	PBBs	PBDEs
Limited Value	100 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm
Above limited value is set up according to RoHS.						

2. Process for RoHS requirement:

- (1) Use the Sn/Ag/Cu soldering surface; the surface of Pb-free solder is rougher than we used before.
- (2) Heat-resistance temp. :

Reflow: 250°C, 30 seconds Max.;

Connector soldering wave or hand soldering : 320°C, 10 seconds max.

(3) Temp. curve of reflow, max. Temp. : $235\pm5^{\circ}$ C;

Recommended customer's soldering temp. of connector: 280°C, 3 seconds.

15. Recommendable storage

- 1. Place the panel or module in the temperature 25°C±5℃ and the humidity below 65% RH
- 2. Do not place the module near organics solvents or corrosive gases.
- 3. Do not crush, shake, or jolt the module

LCM Sample Estimate Feedback Sheet					
Module Number:					
1 · Panel Specification :					
1. Panel Type:	□ Pass	□ NG ,			
2. View Direction:	□ Pass	□ NG ,			
3. Numbers of Dots:	□ Pass	□ NG ,			
4. View Area:	□ Pass	□ NG ,			
5. Active Area:	□ Pass	□ NG ,			
6.Operating	□ Pass	□ NG ,			
Temperature :					
7.Storage Temperature:	□ Pass	□ NG ,			
8.Others:					
2 · Mechanical Specification	<u>on</u> :				
1. PCB Size:	□ Pass	□ NG ,			
2.Frame Size :	□ Pass	□ NG ,			
3.Materal of Frame:	□ Pass	□ NG ,			
4.Connector Position:	□ Pass	□ NG ,			
5.Fix Hole Position:	□ Pass	□ NG ,			
6.Backlight Position:	□ Pass	□ NG ,			
7. Thicknes <mark>s o</mark> f PCB:	□ Pass	□ NG ,			
8. Height of Frame to	□ Pass	□ NG ,			
PCB:					
9.Height of Module:	□ Pass	□ NG ,			
10.Others:	□ Pass	□ NG ,			
3 · Relative Hole Size:					
1.Pitch of Connector:	□ Pass	□ NG ,			
2.Hole size of	□ Pass	□ NG ,			
Connector:					
3.Mounting Hole size:	□ Pass	□ NG ,			
4.Mounting Hole Type:	□ Pass	□ NG ,			
5.Others:	□ Pass	□ NG ,			
4 · <u>Backlight Specification</u> :					
1.B/L Type:	□ Pass	□ NG ,			
2.B/L Color:	□ Pass	□ NG ,			
3.B/L Driving Voltage (Reference for LED Type) : □ Pass □ NG ,					
4.B/L Driving Current:	□ Pass	□ NG ,			
5.Brightness of B/L:	□ Pass	□ NG ,			
6.B/L Solder Method : □ Pass		□ NG ,			
7.Others:	□ Pass	□ NG ,			
		1			

Module Number :			age. z
5 · Electronic Characteristic	s of Module	e:	
1.Input Voltage :	□ Pass	□ NG ,	
2.Supply Current:	□ Pass	□ NG ,	
3.Driving Voltage for LCD:	□ Pass	□ NG ,	
4.Contrast for LCD:	□ Pass	□ NG ,	
5.B/L Driving Method:	□ Pass	□ NG ,	
6.Negative Voltage	□ Pass	□ NG ,	
Output:			
7.Interface Function:	□ Pass	□ NG ,	
8.LCD Uniformity:	□ Pass	□ NG ,	
9.ESD test:	□ Pass	□ NG ,	
10.Others:	□ Pass	□ NG ,	
Sales signature: Customer Signature			

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