Winstar Display Co., LTD
華凌光電股份有限公司
WEB: http://www.winstar.com.tw E-mail: sales@winstar.com.tw

SPECIFICATION

CUSTOMER : _____

MODULE NO.: WG12864F

General Specification

Item	Dimension	Unit
Number of dots	128 x 64	—
Module dimension	89.0 x 70.0 x 13.6 (MAX)	mm
View area	72.0 x 40.0	mm
Active area	66.52 x 33.24	mm
Dot size	0.48 x 0.48	mm
Dot pitch	0.52 x 0.52	mm
Duty	1/64	
View direction	6 o'clock	
Backlight Type	LED, White	
IC	RA6963	

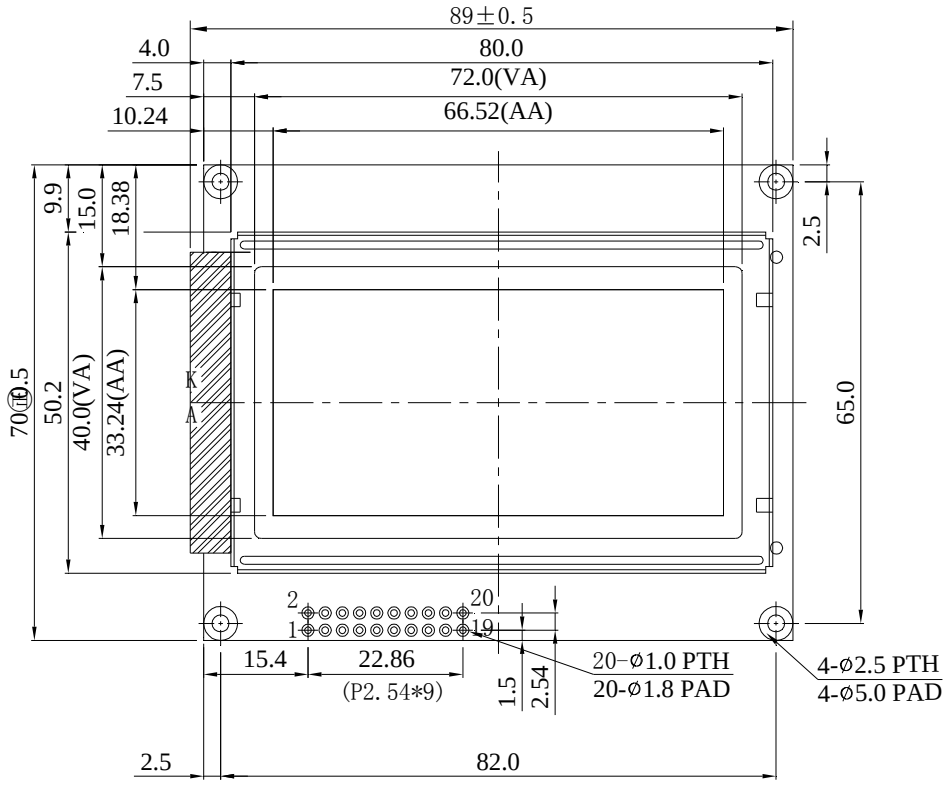
Absolute Maximum Ratings

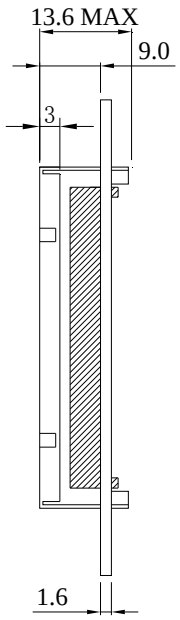
Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_{IN}	-0.3	—	V_{DD}+0.3	V
Supply Voltage For Logic	V_{DD}-V_{SS}	-0.3	—	+7.0	V

Interface Pin Function

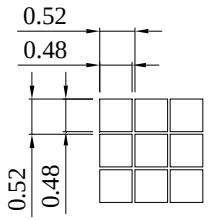
Pin No.	Symbol	Level	Description
1	Vss	—	GND
2	Vdd	—	Power supply
3	Vo	—	Power supply for LCD driver
4	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write RD=L , C/D=H : Status Read C/D=L: Data read
5	RD	L	Data read. Read data from RA6963C when RD = L
6	WR	L	Data write. Write data into RA6963C when WR = L
7	DB0	H / L	Data bus line
8	DB1	H / L	Data bus line
9	DB2	H / L	Data bus line
10	DB3	H / L	Data bus line
11	DB4	H / L	Data bus line
12	DB5	H / L	Data bus line
13	DB6	H / L	Data bus line
14	DB7	H / L	Data bus line
15	CE	L	L : Chip enable
16	RESET	H / L	H : Normal ; L : Initialize RA6963C
17	VEE		Negative Voltage Output
18	MD2	H / L	Column select ; H:32 column ; L:40 column
19	FS1	H / L	Pins for selection of font; H : 6 * 8 , L : 8 * 8
20	HLT	H/l	Clock operation stop signal

Contour Drawing &Block Diagram



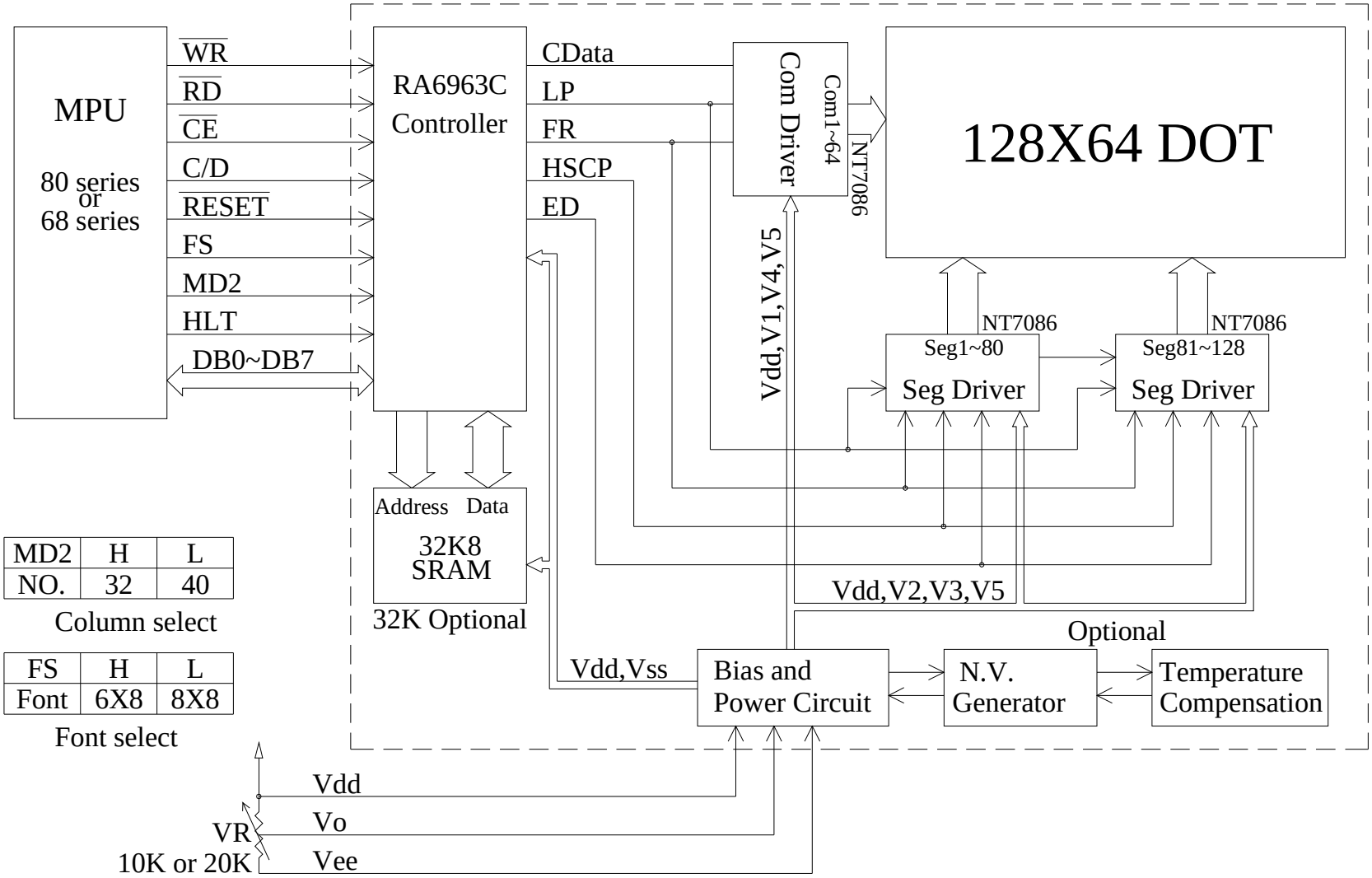


LED B/L



DOT SIZE

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	C/D
5	$\overline{RD}$
6	$\overline{WR}$
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	$\overline{CE}$
16	$\overline{RESET}$
17	Vee
18	MD2
19	FS1
20	HLT



MD2	H	L
NO.	32	40

Column select

FS	H	L
Font	6X8	8X8

Font select

External contrast adjustment.