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SPECIFICATION

CUSTOMER ： _____

MODULE NO.: WG320240BX-TTIVZ#030

General Specification

ITEM	STANDARD VALUE	UNIT
Number of dots	320x240	dots
Outline dimension	160.0(W)x 109.0(H)x 15.0max(T)	mm
View area	122.0(W)x 92.0(H)	mm
Active area	115.18(W)x 86.38(H)	mm
Dot size	0.34(W)x 0.34(H)	mm
Dot pitch	0.36(W)x 0.36(H)	mm
LCD type	FSTN Negative Transmissive (In LCD production, It will occur slightly color difference. We can only guarantee the same color in the same batch.)	
View direction	6 o'clock	
Backlight	LED, White	

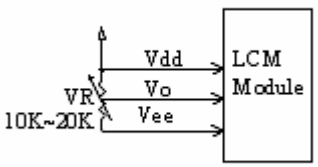
Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_I	0	—	V_{DD}	V
Supply Voltage For Logic	V_{DD}	0	—	6.5	V
Supply Voltage For LCD	V_{DD}-V_{EE}	0	—	32	V

Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Logic Voltage	V_{DD}-V_{SS}	—	4.75	5.0	5.25	V
Supply Voltage For LCD *Note	V_{DD}-V_O	Ta=-20℃	—	—	26.1	V
		Ta=25℃	—	23.8	—	V
		Ta=+70℃	22.2	—	—	V
Input High Volt.	V_{IH}	—	3.5	—	—	V
Input Low Volt.	V_{IL}	—	—	—	1.0	V
Output High Volt.	V_{OH}	—	V_{DD} -0.4	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	—	65.0	75.0	80.0	mA

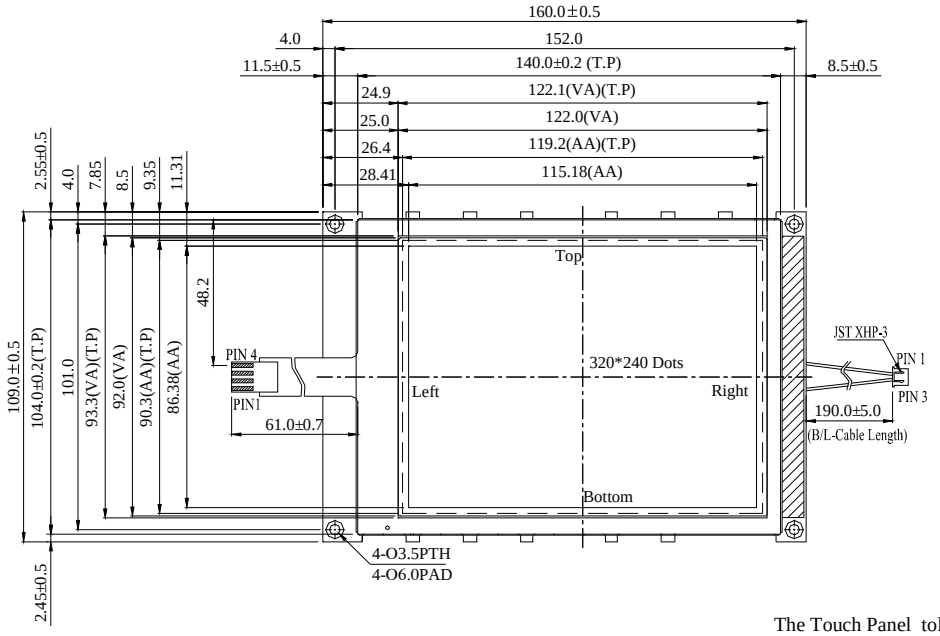
* Note: Please design the VOP adjustment circuit on customer's main board



Interface Description

Pin No.	Symbol	Level	Description
1	V_{SS}	0V	Ground
2	V_{DD}	5.0V	Power supply for Logic
3	V_O	(Variable)	Driving voltage for LCD
4	A0	H/L	RD=L WR=H ,A0=L :Data Read AO=H :Status read RD=H WR=L ,A0=L :Data Write AO=H :Command write
5	$\overline{WR}$	H/L	8080 family: Write signal, 6800 family: R/W signal
6	$\overline{RD}$	H/L	8080 family: Read signal, 6800 family: Enable clock
7~14	DB0~DB7	H/L	Data bus line
15	$\overline{CS}$	H/L	Chip select ,Active L
16	$\overline{RES}$	H/L	Controller reset signal, Active L
17	V_{ee}		Negative Voltage Output
18	SEL		8080 or 6800 interface selection 1:68 0: 80
19	FG		Frame Ground
20	WAIT		Check Busy

Contour Drawing & Block diagram

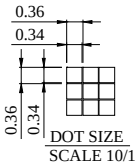


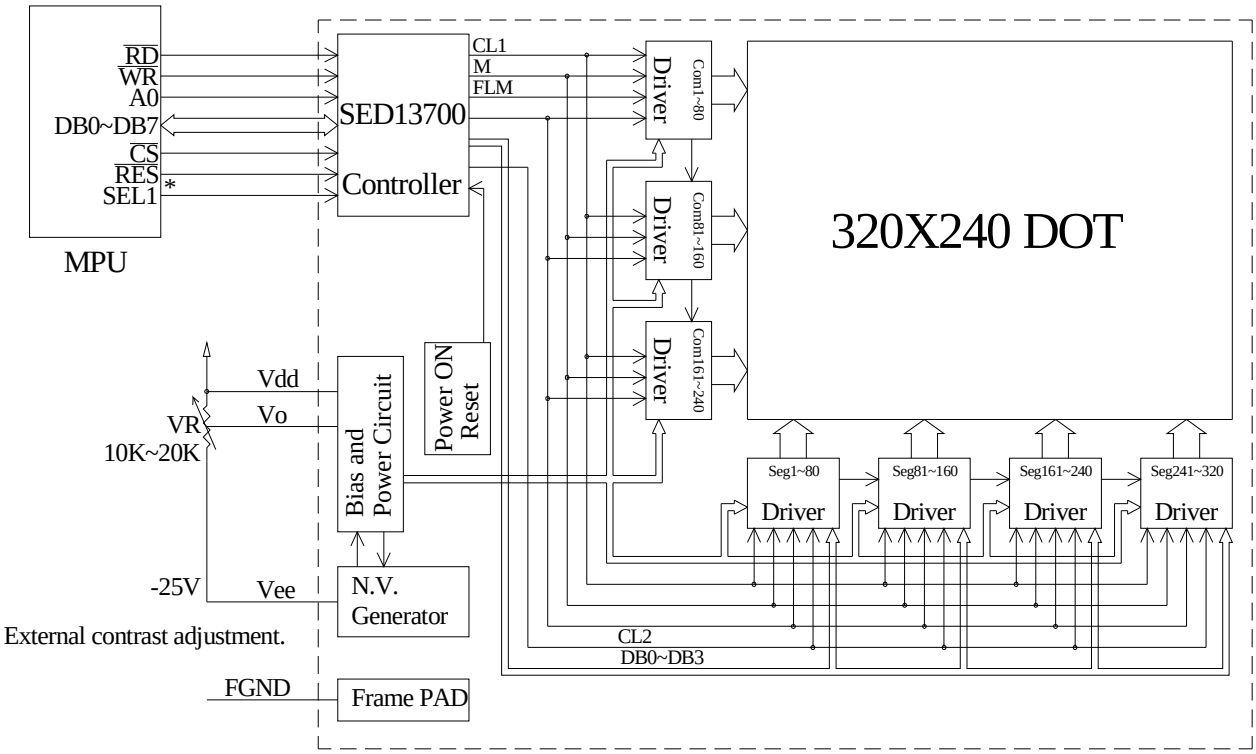
PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	A0
5	$\overline{WR}$
6	$\overline{RD}$
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	$\overline{CS}$
16	$\overline{RES}$
17	Vee
18	SEL
19	FG
20	WAIT

The Touch Panel tolerance of dimension is ±0.5 mm .
The non-specified tolerance of dimension is ±0.3mm.

PIN NO.	Assignment
1	Right
2	Left
3	Bottom
4	Top

TOUCH PANEL PIN ASSIGENMENT





*:6800 family or 8080family interface selectable.