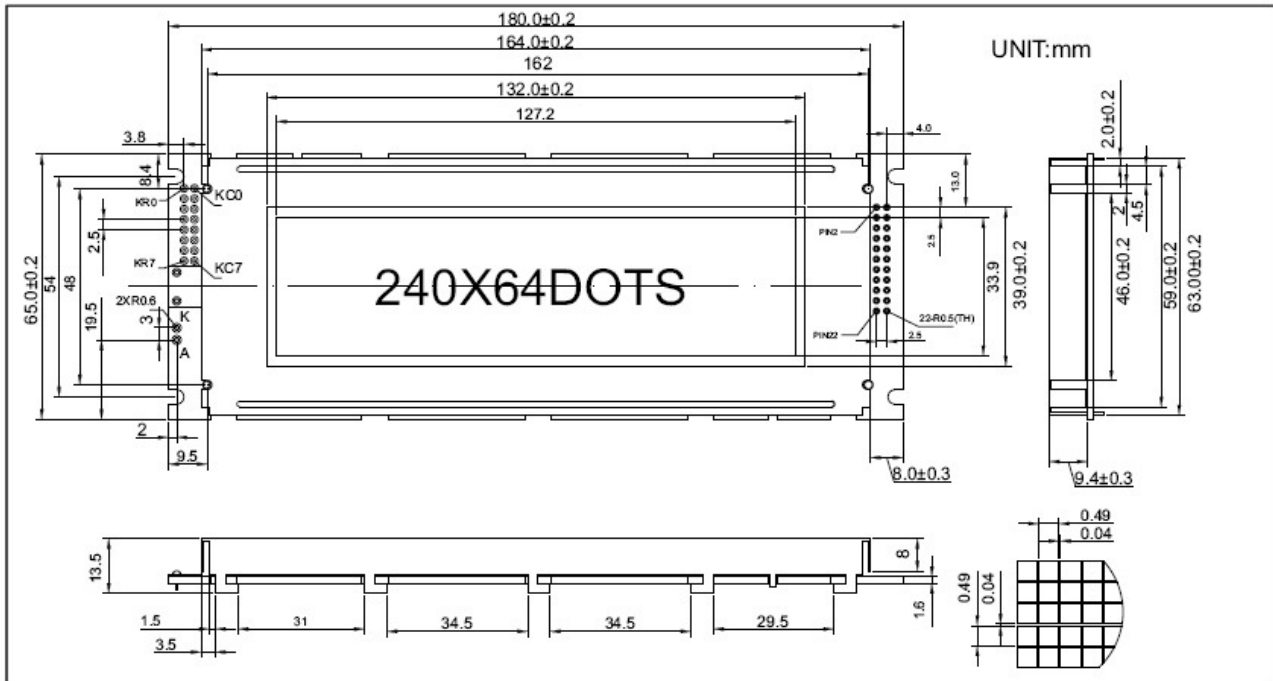
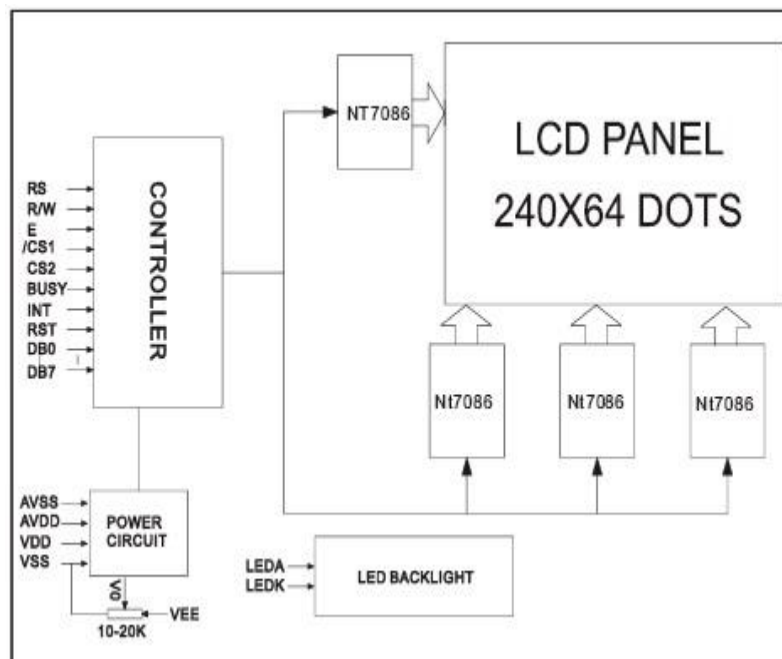


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS $T_a=25^\circ\text{C}$ $V_{DD}=5.0V \pm 0.25V$

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	—	2.4	—	5.5	V
Input Low Voltage	V_{IL}	—	0	—	0.7	V
Output High Voltage	V_{OH}	—	$V_{DD} - 0.3$	—	V_{DD}	V
Output Low Voltage	V_{OL}	—	0	—	0.3	V
Supply Current	I_{DD}	$V_{DD}=5.0V$	—	17.0	20.0	mA

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Standard Value		
		Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD}	2.4	5.5	V
Supply Voltage (LCD)	V _{DD} - V _O	—	15.0	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp	Top.	-20	70	°C
Storage Temp	Tst.	-30	80	°C

5.0 PIN ASSIGNMENT

PIN NO.	NAME	RECOMMEND CONNECTION
1	AV _{SS}	Connection V _{SS}
2	AV _{DD}	Connection V _{DD}
3	V _{SS}	GND
4	V _{DD}	Power Supply
5	BUSY	H: can't access data; L: can access data
6	INT	Interrupt signal
7	/CS1	Active when CS1 is low and CS2 is high
8	CS2	
9	RS	H: Data; L: Instruction code
10	R/W(/WR)	H: Read; L: Write
11	E(/RD)	Enable signal (L: Read)
12	RESET	Reset signal
13	DB0	Data bus line
14	DB1	
15	DB2	
16	DB3	
17	DB4	
18	DB5	
19	DB6	
20	DB7	
21	V _O	Operating voltage for LCD drive
22	V _{EE}	Negative voltage output

Remark

1. LCD option: STN, FSTN .
2. Customized module.
3. Backlight option: EL backlight feature, other specs not available on catalog is under request.