



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.:

WG19264D

General Specification

Item	Dimension	Unit
Number of dots	192 x 64	—
Module dimension	120.0 x 62.0 x 12.9 (MAX)	mm
View area	102.0 x 39.0	mm
Active area	96.0 x 32.0	mm
Dot size	0.46 x 0.46	mm
Dot pitch	0.50 x 0.50	mm
Duty	1/64	
Backlight Type	LED	
IC	NT7107, NT7108	
Interface	6800	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	7.0	V
Driver Supply Voltage	V_{LCD}	$V_{EE}-0.3$	—	$V_{DD}+0.3$	V

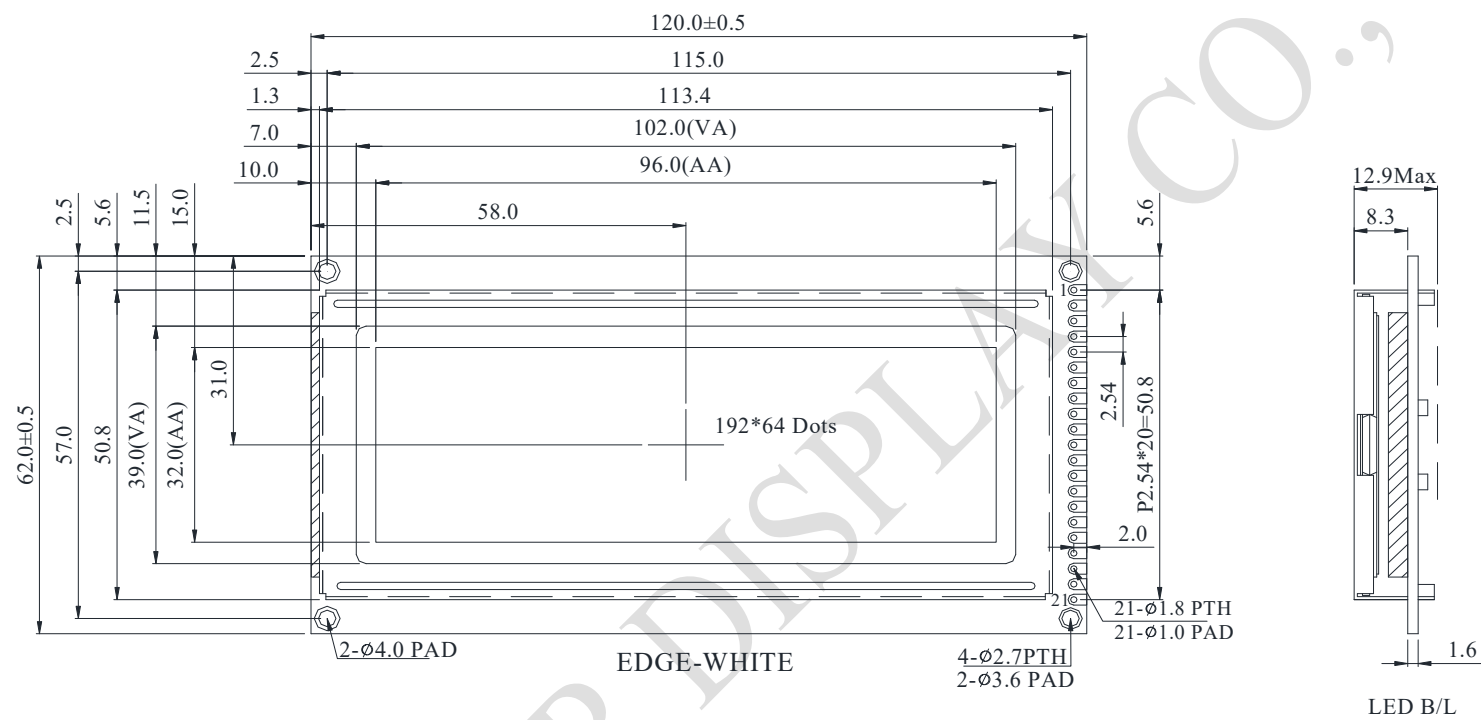
Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	4.5	5.0	5.5	V
Supply Voltage For LCD	$V_{DD}-V_O$	$T_a=-20^{\circ}\text{C}$	—	—	—	V
		$T_a=25^{\circ}\text{C}$	—	—	—	V
		$T_a=70^{\circ}\text{C}$	—	—	—	V
Input High Volt.	V_{IH}	—	$0.7 V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	0	—	0.8	V
Output High Volt.	V_{OH}	—	2.4	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	$V_{DD}=5.0\text{V}$	—	8.0	—	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply voltage for logic
3	NC	—	No Connection
4	Vee	—	Negative Voltage Output
5	RS	H/L	H: DATA, L: Instruction code
6	R/W	H/L	H: Read (MPU←Module) , L: Write (MPU→Module)
7	E	H	Enable signal
8	DB0	H/L	Data bus line
9	DB1	H/L	Data bus line
10	DB2	H/L	Data bus line
11	DB3	H/L	Data bus line
12	DB4	H/L	Data bus line
13	DB5	H/L	Data bus line
14	DB6	H/L	Data bus line
15	DB7	H/L	Data bus line
16	/CS1	H	Select Column 1~ Column 64
17	/CS2	H	Select Column 65~ Column 128
18	/CS3	H	Select Column 65~ Column 128
19	/RST	L	Reset signal
20	A	—	Power supply for LED +
21	K	—	Power supply for LED -

Contour Drawing



PIN NO.	SYMBOL
1	VSS
2	VDD
3	NC
4	VEE
5	RS
6	R/W
7	E
8	DB0
9	DB1
10	DB2
11	DB3
12	DB4
13	DB5
14	DB6
15	DB7
16	CS1
17	CS2
18	CS3
19	RST
20	A
21	K

The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.