



RAYSTAR

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RG19264A

General Specification

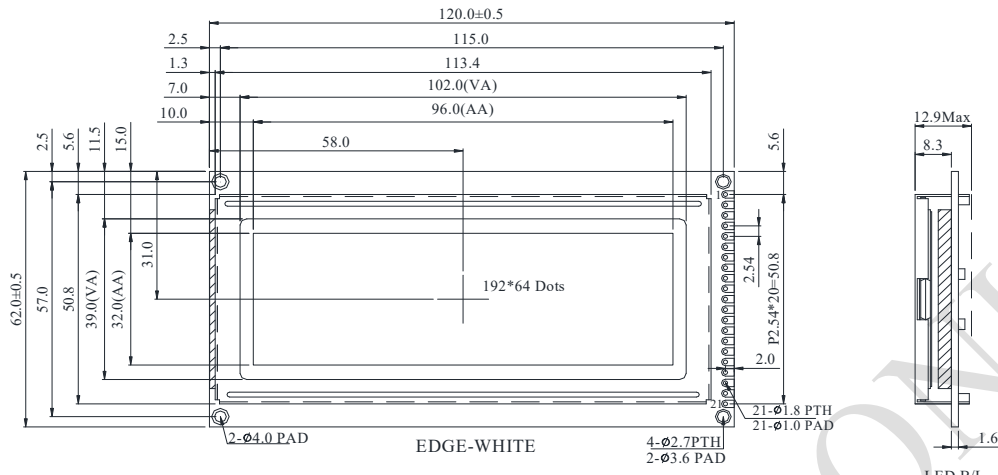
The Features of the Module is description as follow:

- 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
- Number of Dots: 192 x 64
- 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

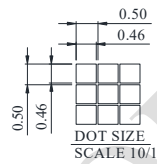
Interface Pin Function

Pin No.	Symbol	Level	Description
1	V _{SS}	0V	Ground
2	V _{DD}	5.0V	Supply voltage for logic
3	NC	—	No Connection
4	V _{ee}	—	Negative Voltage Output
5	RS	H/L	H: DATA, L: Instruction code
6	R/W	H/L	H: Read (Module --> MPU) 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 ±0.3mm.

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-VSS}	-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-VSS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD	V_{DD-V_O}	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	—	—	—	V
		$T_a=70^{\circ}C$	—	—	—	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}	$V_{DD}=5.0V$	—	8.0	—	mA