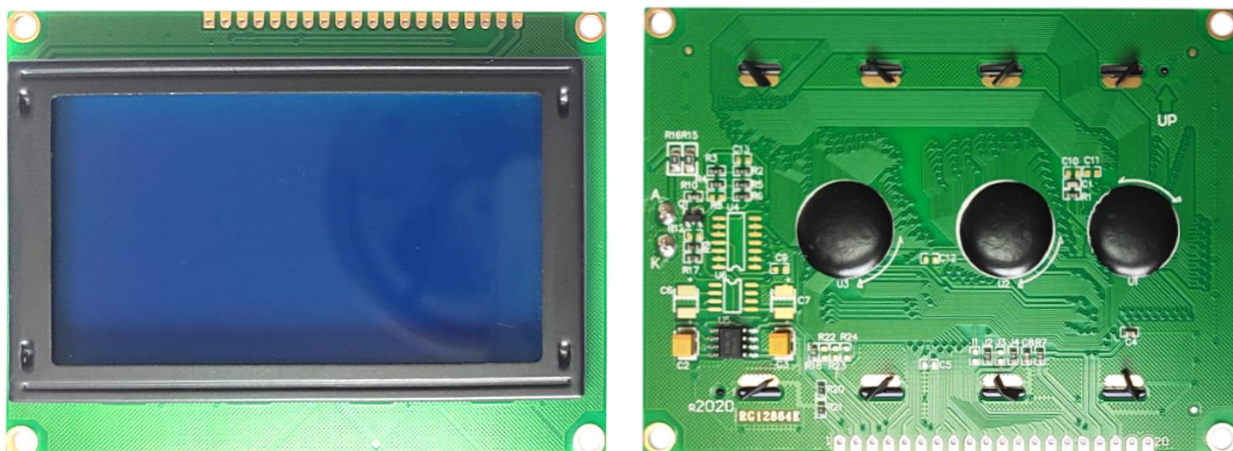




RG12864 D1 Small DISPLAY 128×64 BLUE



1. Features:

- Built-in controller (NT7108 or equivalent)
- 5V power supply
- 1/64 duty cycle
- N.V. Built-in
- 12864-D1S: Chinese built-in
- 12864-D1P1: 3.3V option

2. Mechanical Specifications:

Item	Standard Value	Unit
Module Dimension	75.0 x 52.7	mm
Viewing Area	58.8 x 31.4	mm
Mounting Hole	70.0 x 49.7	mm
Dot Pitch	0.43 x 0.43	mm
Dot Size	0.40 x 0.40	mm

3. Electrical Specifications:

Item	Symbol	Standard Value	Unit
		Typ.	
Input Voltage	V _{DD}	5.0	V
Recommended LCD Driving Voltage Of Normal Temp. Version module @25°C	V _{DD-VO}	8.0	V

4. Pin Configuration:

Pin No.	Symbol	Description
1	V _{DD}	Power supply for logic
2	V _{SS}	Ground
3	V _O	Contrast Adjustment
4	DB0	Data bus line
5	DB1	Data bus line
6	DB2	Data bus line
7	DB3	Data bus line
8	DB4	Data bus line
9	DB5	Data bus line
10	DB6	Data bus line
11	DB7	Data bus line
12	CS1	Select Column 1- Column 64
13	CS2	Select Column 65- Column 128
14	/RST	Controller reset signal, Active Low
15	R/W	Read/Write select signal
16	D/I	Data/ Instruction select signal
17	E	Enable signal
18	V _{EE}	Negative Voltage Output
19	A	Power supply for B/L +
20	K	Power supply for B/L -

The drawing illustrates the mechanical specifications of the 128*64 Dots module. The top view shows a rectangular module with a central display area of 128*64 dots. Key dimensions include an overall width of 75.0±0.5 mm and a height of 52.7±0.5 mm. The module features a 20-pin connector at the bottom, with dimensions for the pin pitch (P2.54*19=48.26) and individual pin locations. The side view shows a profile with a maximum height of 8.9 mm and a base width of 1.0 mm. The dot size is specified as 0.43 mm, and the scale is 10/1.

Top View Dimensions:

- Overall Width: 75.0±0.5
- Overall Height: 52.7±0.5
- Display Area: 128*64 Dots
- Pin Pitch: P2.54*19=48.26
- Pin Locations: 20-Ø1.0PTH, 20-Ø1.8PAD, 20-Ø2.5 PTH, 2-Ø4.0 PAD
- Module Thickness: 2.5
- Connector Pin Spacing: 13.37, 37.5
- Module Width Segments: 2.5, 2.2, 8.1, 10.0, 58.8(VA), 55.01(AA)
- Module Height Segments: 0.5, 2.9, 9.5, 11.46, 25.35

Side View Dimensions:

- Maximum Height: 8.9Max
- Base Width: 1.0
- Module Thickness: 2.5

Dot Size and Scale:

- Dot Size: 0.43
- Scale: 10/1