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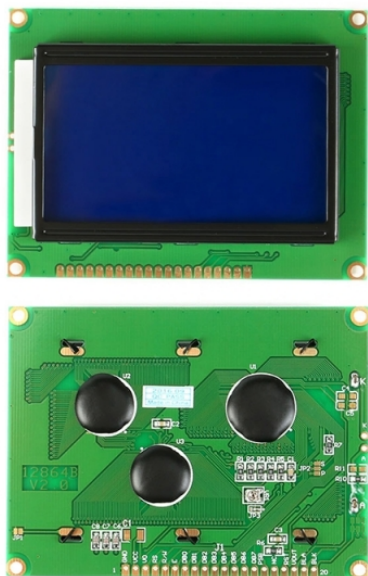
CATEGORIES   HOME   ABOUT US   SERVICE   BLOG   CONTACT US

Your position: Home / Development Boards

1602A/2004A/12864B LCD blue/yellow-green Screen
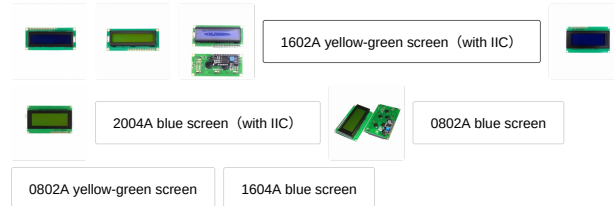YXA470

Sold:41908
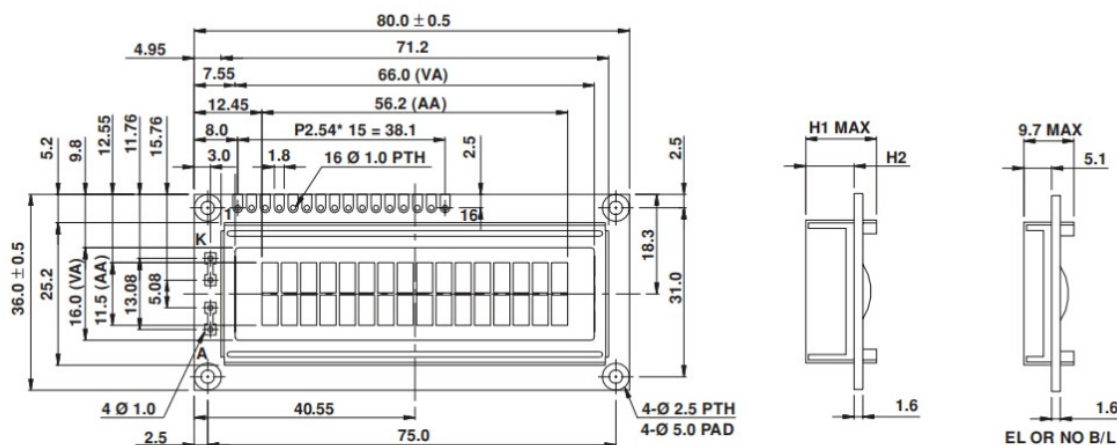
Price:

USD $1.97

Style:

1602A yellow-green screen（with IIC）

2004A blue screen（with IIC）   0802A blue screen

0802A yellow-green screen   1604A blue screen

Quantity:

1   (**93300** available)

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Description   Size Chart   Measurement   Color Chart   Reviews

1602A Blue/ Yellow-Green

Parameter:

Logic working voltage (Vdd): +4.8~+5.2V

LCD drive voltage (Vdd-Vo): +3.0~ +5.0V

Storage temperature (Tsto): -30~+ 80C (wide temperature)

Working temperature (Ta): -20~+70C (wide temperature)

Operating current (except backlight): 1.7mA (max)

Working current (backlight): 24.0mA (max)

12864B blue/yellow-green

12864 Chinese kanji graphic dot matrix liquid crystal display module, can display Chinese characters and graphics, built-in 8192 Chinese characters (16X16 dot matrix), 128 characters (8X16 dot matrix) and 64X256 dot matrix display RAM (GDRAM).

Main technical parameters and display characteristics:

Power supply: VDD 3.3V~+5V (built-in boost circuit, no negative pressure required);

Display content: 128 columns x 64 rows

Display angle: 6: 00 hours direct view

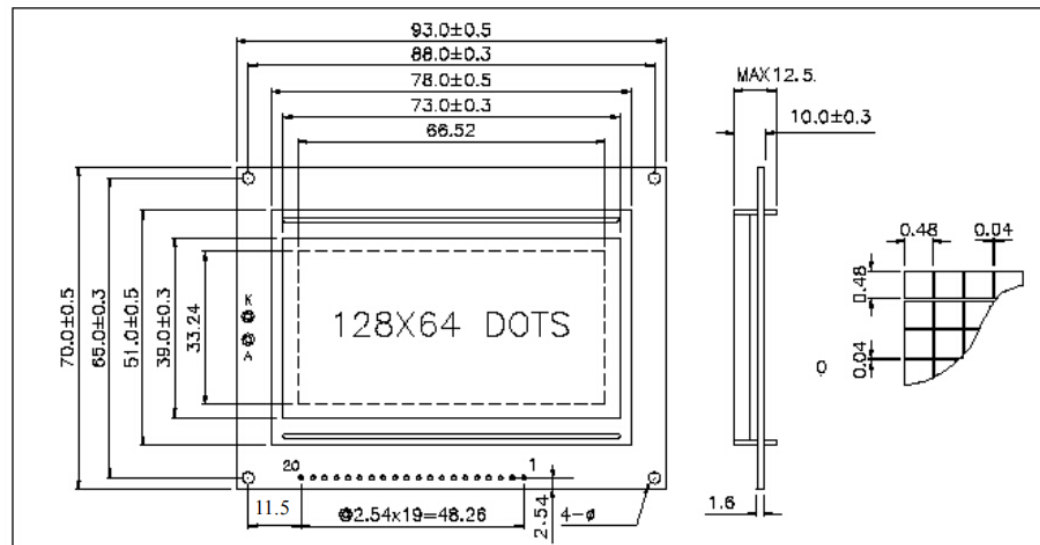Display color: yellow green / blue screen

LCD type: STN

Interface with MCU: 8-bit or 4-bit parallel/3-bit serial

Configuring LED backlighting

A variety of software features: cursor display, screen shift, custom characters, sleep mode, etc.

Dimensions: 93x70x 12.5mm

Sight Size: 73 x 39mm

ITEM	NOMINAL DIMEN	UNIT
Module volume	93 × 70 × 12.5	mm
Sight	73.0 × 39.0	mm
Row number of dots	128 × 64	dots
Point distance	0.52 × 0.52	mm
Point size	0.48 × 0.48	mm

2004 Blue / Yellow-Green

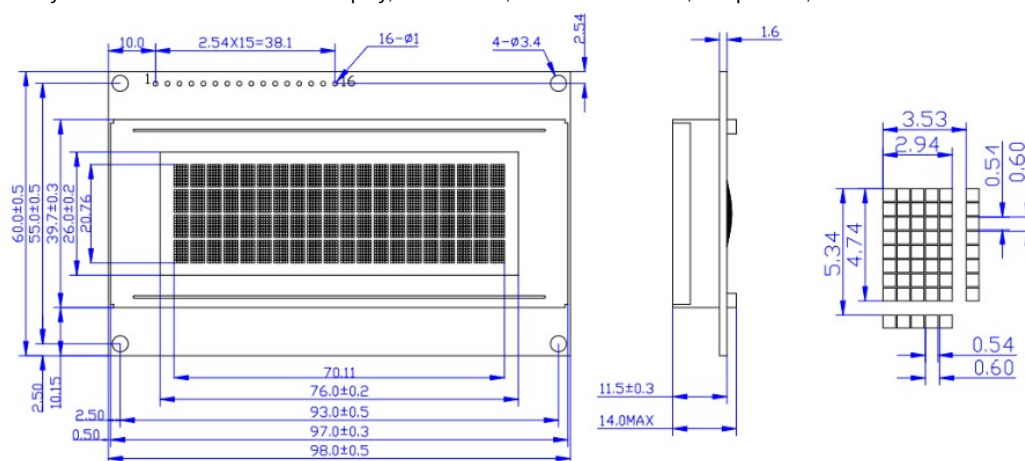Main technical parameters and display characteristics:

Power supply: VDD 5V

Display color: yellow green / blue screen

Display angle: 6: 00 hours direct LCD type: STN

Interface with MCU: 8-bit or 4-bit parallel/3-bit serial configuration LED backlight

A variety of software features: cursor display, screen shift, custom characters, sleep mode, etc.

Item	Symbol	Condition	Standard Value		Unit
			Min	Max	
Supply Voltage for logic	Vdd		-0.3	7.0	V
Supply Voltage for LCD	Vlcd		Vdd-10.0	Vdd+0.3	V
Input Voltage	Vi		-0.3	Vdd+0.3	V
Operating Temperature(T)	Top	-	0	50	℃
Storage Temperature(T)	Tstg	-	-10	60	℃

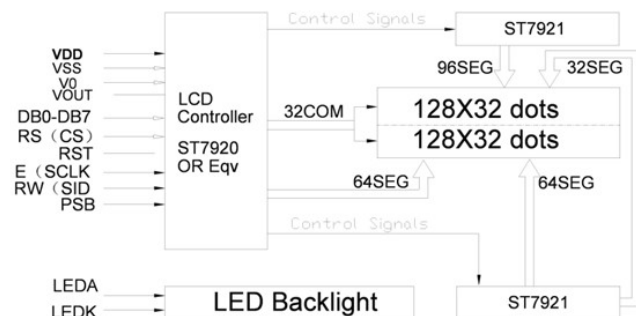| Pin NO.	Symbol	Function		Remark
1	Vss	Power Supply	0V	
2	Vdd		+5V	
3	Vo		For LCD	Variable
4	RS	Register Select (H: Data L: Instruction)		
5	R/W	L: MPU to LCM H: LCM to MPU		
6	E	Enable		
7	DB0	Data Bit 0		
8	DB1	Data Bit 1		
9	DB2	Data Bit 2		
10	DB3	Data Bit 3		
11	DB4	Data Bit 4		
12	DB5	Data Bit 5		
13	DB6	Data Bit 6		
14	DB7	Data Bit 7		
15	A	Anode of LED Unit		
16	K	Cathode of LED Unit		

12864B Blue

The 12864B module has an internal boost circuit that supports 3V to 5.5V. The default 4.5V voltage contrast display is the best. If the voltage is 5V or 3V and other voltages, please change the VR1 adjustable potentiometer on the back. The display effect is at least 3V and up to 5.5V. Since the module supports multiple voltages, and the current limiting resistor R12 R13 that controls the LED backlight is fixed at 68 ohms, the LED gets no voltage at 3V rating in the case of 3V-4V, and the LED backlight brightness does not have a normal 3.3V backlight. The current limiting resistor has a high brightness of 6.8 ohms, which is normal. 4V or more is not affected by resistance
Serial port selection, the default is serial port, and the parallel port is common. When the serial port is selected, it can be completed by selecting high and low levels. The second type can also be short-circuited to the serial port by the silk screen S on the back of the LCD screen, and the P point is short-circuited to the parallel port.
Since the third pin V0 has been disconnected by the JP2 jump point, if it needs to be adjusted by an external adjustable resistor, connect the JP2 jumper.

The LCD12864 is mainly composed of an LCD display (LCD PANEL), a controller, a driver, and a bias generating circuit.
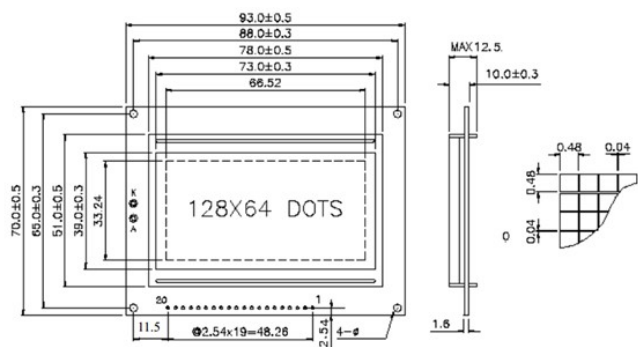

The controller is mainly composed of an instruction register IR, a data register DR, a busy flag BF, an address counter AC, a display buffer DDRAM, a character generator CGROM, a user-defined character generator CGRAM, and a timing generation circuit.
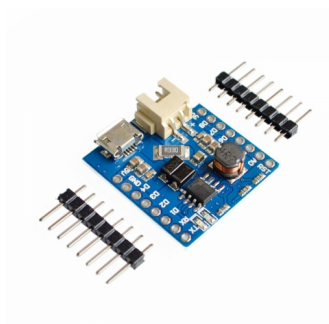
Parameter:
The best working voltage of the module is: 3-5V;
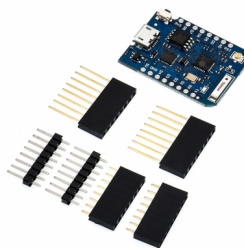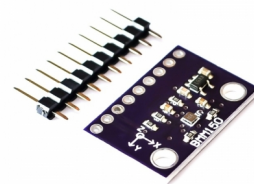Working temperature: 0 deg C ~ 50 deg C

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1A charging board module MICRO interface	WEMOS D1 mini Lite V1.0.0 - WIFI Internet of Things development board	D1 mini V3.0.0 4MB WIFI IoT development board	MCU-150 BMM150 Geomagnetic Sensor
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