



We provide LCD/ LCM with multiple font options for BG14432A , BG12864B , BG16032A and BG320240G , customer can choose the font required for their application.

The BG14432A , BG12864B , BG16032A Graphic LCD come with ST7920 controller/driver IC which can display alphabets, numbers, and Chinese fonts.





It also allows customer to build fonts themselves, since it is a Graphic LCD.

ST7920-0A - BIG-5 code traditional character set [controller info](#) 

ST7920-0B - GB code simplified character set [controller info](#) 

ST7920-0C - GB code, BIG-5 code and Japanese code [controller info](#) 

ST7920-0F - Chinese (Traditional/Simplified), Japanese & Korean [controller info](#) 

Display Format	Model No.	Outline Dimension (mm)	View Area (mm)	Dot Size (mm)	Interface	IC Part No. or Compatible with Controller	Product Flyer
128x64	BG12864B	93X70	72X40	0.48X0.48	Parallel / SPI	ST7920	
144x32	BG14432A	84X44	66X16	0.37X0.37	Parallel / SPI	ST7920	
160x32	BG16032A	116X37	85X18.6	0.45x0.45	Parallel / SPI	ST7920	
320x240	BG320240G	160x109	122x92	0.34X0.34	Parallel	RA8806	



# BG12864B

## Feature

1. COB with metal frame
2. Built-in controller ST7920  
(128x64 dots matrix mode or 16x16 dots Big5/GB Chinese mode , or 8x16 dots ASCII mode)
3. +5V single power supply
4. 1/32 duty cycle
5. Option: +3V single power supply
6. Option: LED array/edge B/L, EL B/L

## Chinese Font



## Mechanical Data

Item	Standard Value	Unit
Module Dimension	93.0 x 70.0	mm
Viewing Area	72.0 x 40.0	mm
Dot Size	0.48 x 0.48	mm
Dot Pitch	0.52 x 0.52	mm

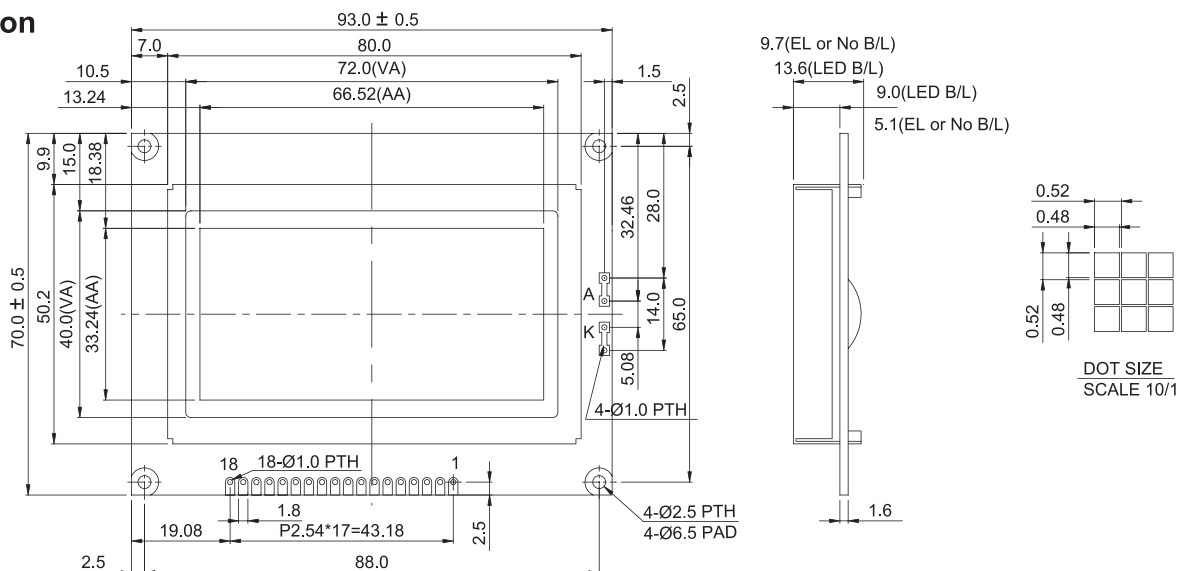
## Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	+ 5V(+3V option)
3	Vo	Contrast adjustment
4	RS	Register selection signal
5	R/W	Data read/write
6	E	H -> L Enable signal
7~14	DB0~7	Data bus line
15	A	Power supply for B/L (+)
16	K	Power supply for B/L (GND)
17	/RST	Reset LCD module
18	Vee	Positive voltage output +7.5V

## Electronic Characteristics

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	5.0	mA
LCD Driving Voltage	Vo-Vss	25°C	4.3	V
LED Forward Voltage	Vf	25°C	4.1	V
LED Forward Current	If	25°C	330	mA
EL Power Voltage	Vel	Vel=110Vac/400Hz		V

## Dimension







# BG16032A

## Feature

1. COB with metal frame
2. Built-in controller ST7920
3. +5V single power supply
4. 1/32 duty cycle
5. Option: +3V single power supply
6. Option: LED, EL B/L Display mode  
Dot matrix (160x32 dots), Chinese Big5 or GB (16x16 dots), ASCII(8x16 dots)

## Chinese Font



## Mechanical Data

Item	Standard Value	Unit
Module Dimension	116.0 x 37.0	mm
Viewing Area	85.0 x 18.6	mm
Dot Size	0.45 x 0.45	mm
Dot Pitch	0.5 x 0.5	mm

## Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	+5V(+3V option)
3	Vo	Contrast adjustment
4	RS	H/L register select signal
5	R/W	read/write signal
6	E	H-->L enable signal
7~14	DB0~7	H/L bus line
15	A/Vee	Power supply for B/L (+)/ Positive voltage output
16	K	Power supply for B/L (GND)

## Electronic Characteristics

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	5.0	mA
LCD Driving Voltage	Vo-Vss	25°C	4.5	V
LED Forward Voltage(yellow-green)	Vf	25°C	4.2	V
LED Forward Current	If	25°C	220	mA
EL Power Voltage	Vel	Vel=110Vac/400Hz		V

## Dimension

