



## Interfacing of GLCD

Kiran B V  
153079033,  
WEL RA

Introduction  
Working  
Using GLCD  
Demo  
The End

# Interfacing of GLCD

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# What is GLCD?

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GLCD is similar to Character LCD but it allows the user to draw random shapes and figures.

Learning to operate GLCD will enable the user to operate any other LCD module available in market. Even those bigger 10 inches TFT colour LCD's.



LCD Module

# Fundamentals

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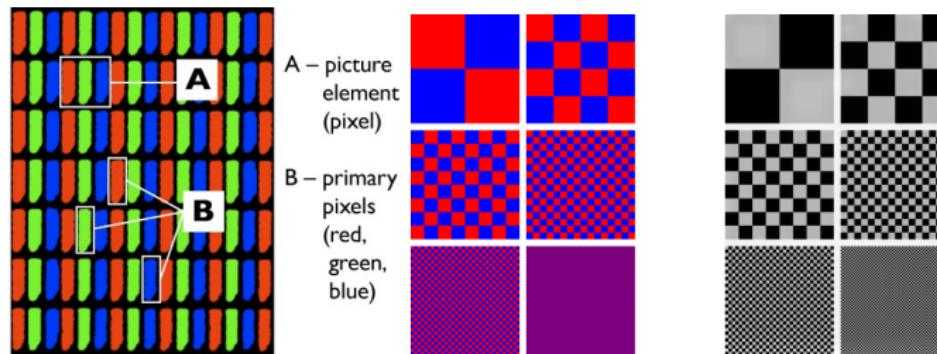
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LCD is made of millions of small pixels and each pixel or a group of pixels are written by selecting its x and y location

Those pixels that are written a high value, will be turned ON.

[Click here](#) for a slow motion video of screen refreshing color data.



# Working of GLCD module

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- LCD comes in two variants. They are:
  - ① Raw LCD
  - ② LCD module
- Raw LCD is difficult to operate and requires continuous writing of data at 60 frames per second.
- LCD Modules are easier to operate and does not blank if data is not given.
- LCD modules uses LCD controllers to interface a slower microcontroller with the given Raw LCD.

# LCD module vs raw LCD

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# Using GLCD

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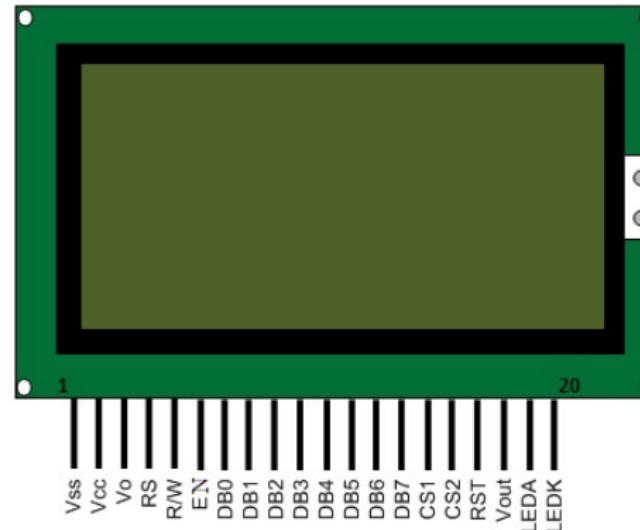
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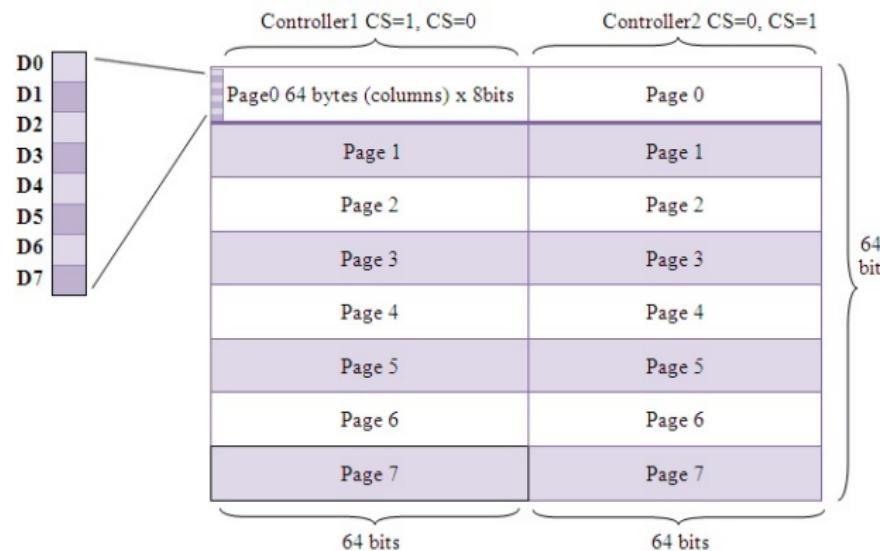
# Using GLCD

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There are two controllers for GLCD. one of them controls right side of the screen while the other controls left side



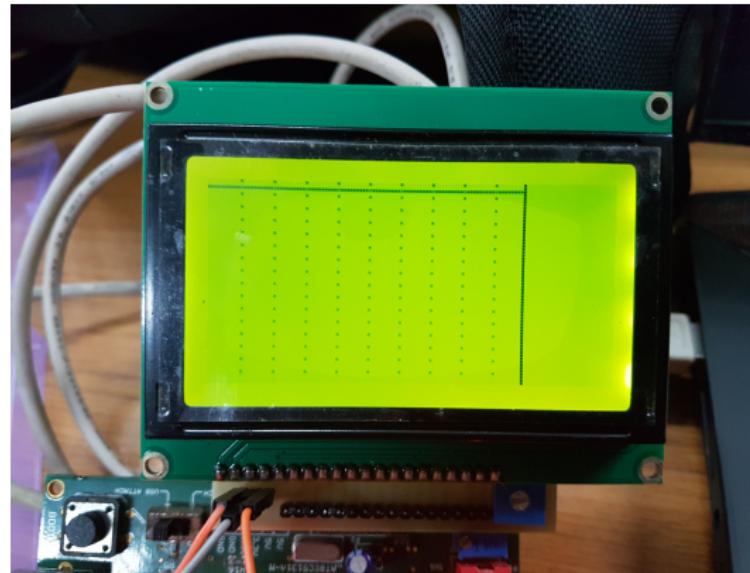
# Demonstration of GLCD

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The following image shows a demonstration of drawing dotted lines on GLCD



# Thanks for your time

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displaying [video](#) in GLCD

