

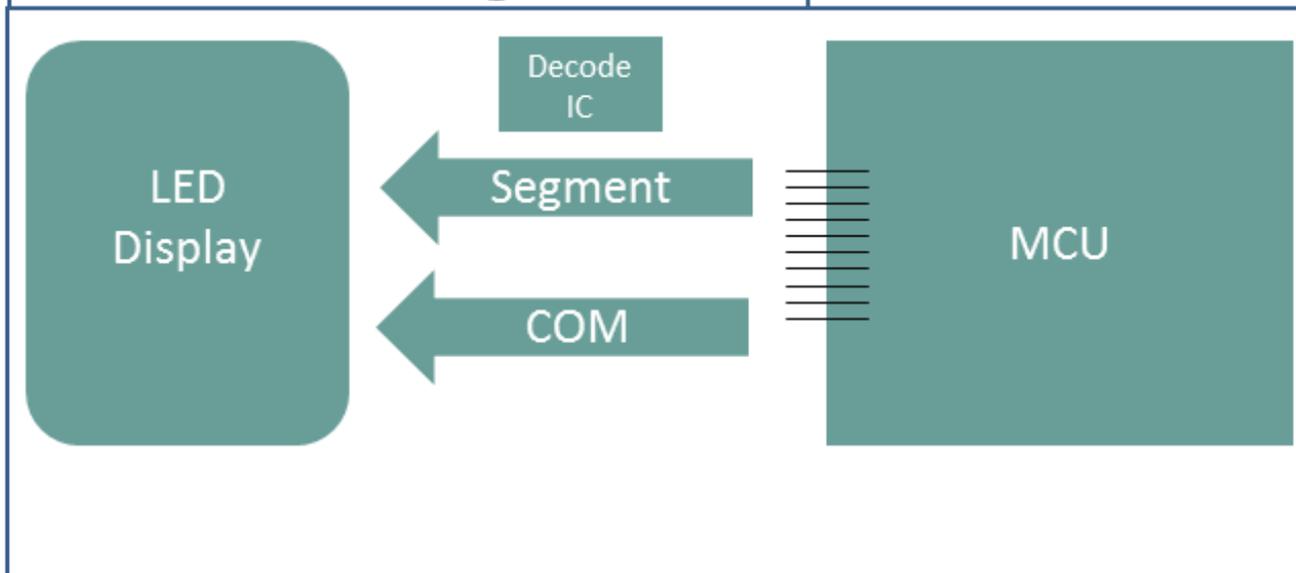
LED Display Module

LEDs are flat panel displays that emit visible light when an electric current passes through the light-emitting diodes.

LED displays are brighter and visible from a greater distance, which makes them optimum for sunlight readable application. Also, it offers a wider viewing angle up-to 178 Degree (Horizontal & Vertical).

One major challenge to drive the LED display is higher numbers of MCU (Microcontroller) I/O pins required, which makes it difficult to use it with MCU that have lower number of pins such as PIC12F.

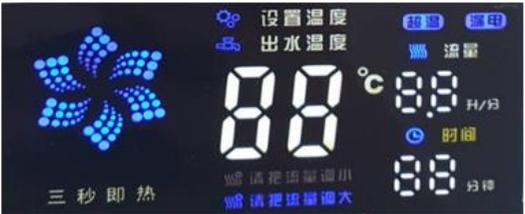
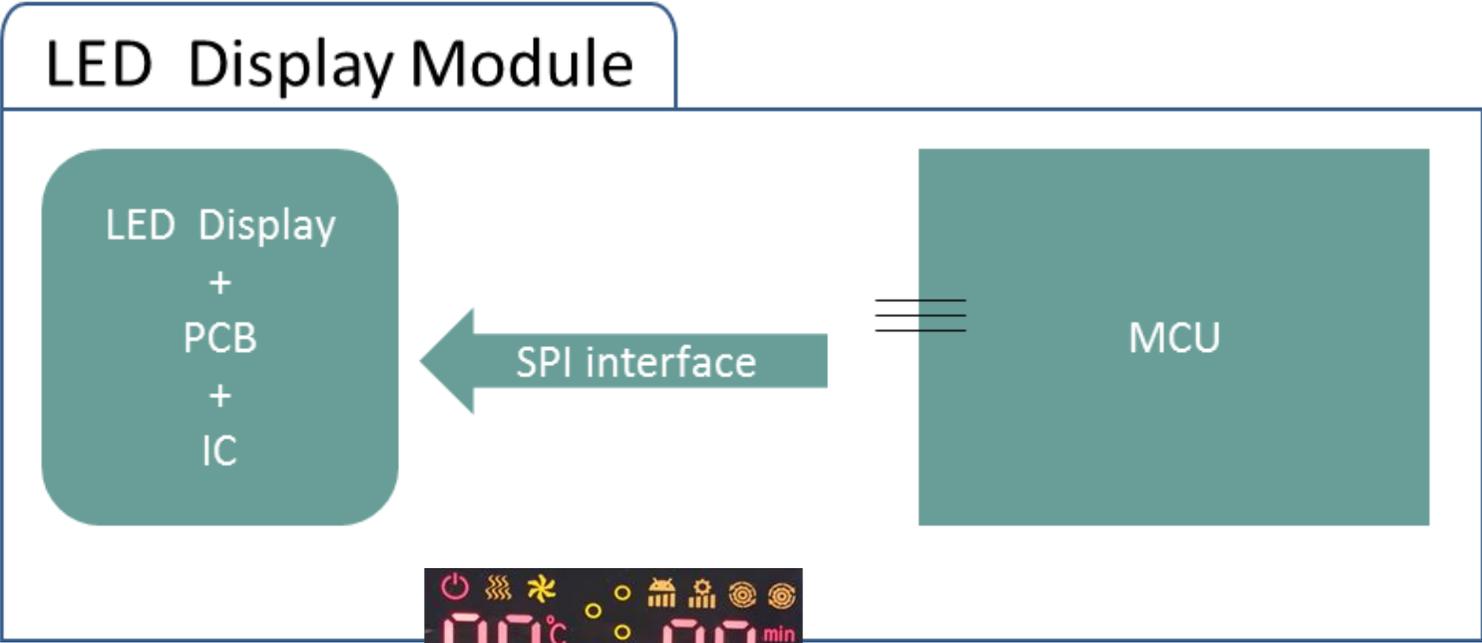
Current Driving Method



Bolymin LED Display Module

Bolymin LED Display Module consists of LED Display, PCB, IC and it is connected through the SPI interface.

For example, the following 4-digit seven-segment LED module features a serial interface that requires only 3 I/O pins of a microcontroller and provides full control of all digits and decimal points.



What are the advantages of LED display (Module):

- * Increase MCU working effectiveness
- * SPI interface
- * DIP mounting hole
- * Integrate LED Displays in one board
- * Sunlight Readable
- * Large viewing angle, Up to 178° (Horizontal & Vertical)
- * 256 ICONs per IC, series LED display module available
- * Bolymin in-built IC guarantee high refresh rate for LED

What are the major applications for LED display (Module):?

The major application is front panel display boards of microwave ovens, washers and dryers, digital clocks, frequency counters, and many other

- * Microwave
- * Washer / Dryer
- * Frequency counter
- * Gas dispenser
- * Coffee Machine
- * DashBoard (e-bike, Motorcycle)

What are the various kinds of LED Display?

- * LED Display
- * LED Dot Matrix
- * LED 7-Segment Display
- * LED Digital Display
- * LED SMD Display