



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Coimbatore-35

sns
INSTITUTIONS

DEPARTMENT OF BIOMEDICAL ENGINEERING

19BMB303 & Fundamentals of Microprocessors and Microcontrollers

Matrix display Interface

III Year/ VI Sem

**Dr. K. Manoharan,
ASP / BME / SNSCT**



LED Matrix Display

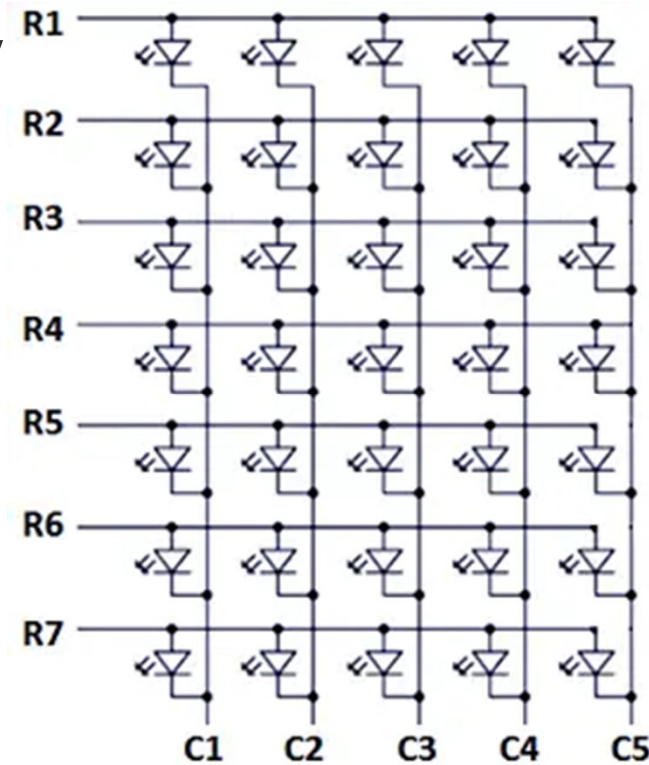
- An LED dot matrix display consists of a matrix of LED's arranged in a rectangular configuration.
- The desired character or graphics can be displayed by switching ON/OFF a desired configuration of LED's.
- Common display configurations available are 7×5 , 8×8 , 7×15





LED Matrix Display

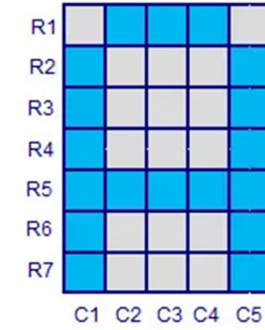
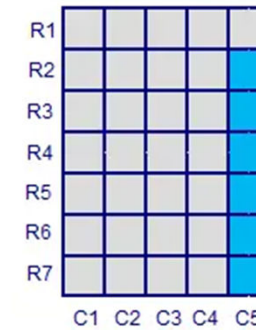
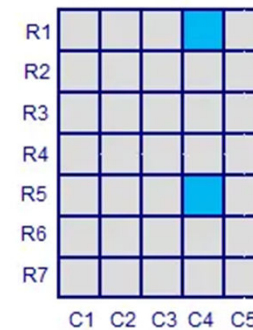
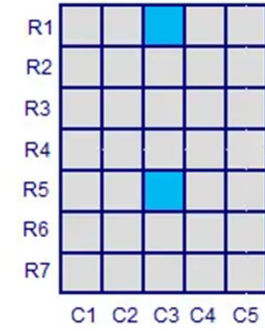
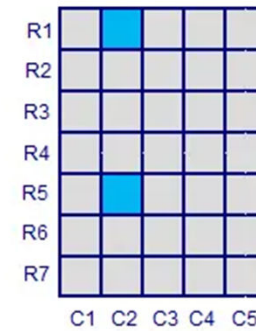
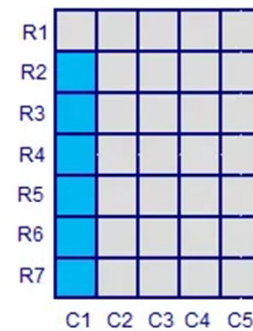
- 5x7 LED Matrix Display
Circuit diagram





LED Matrix Display

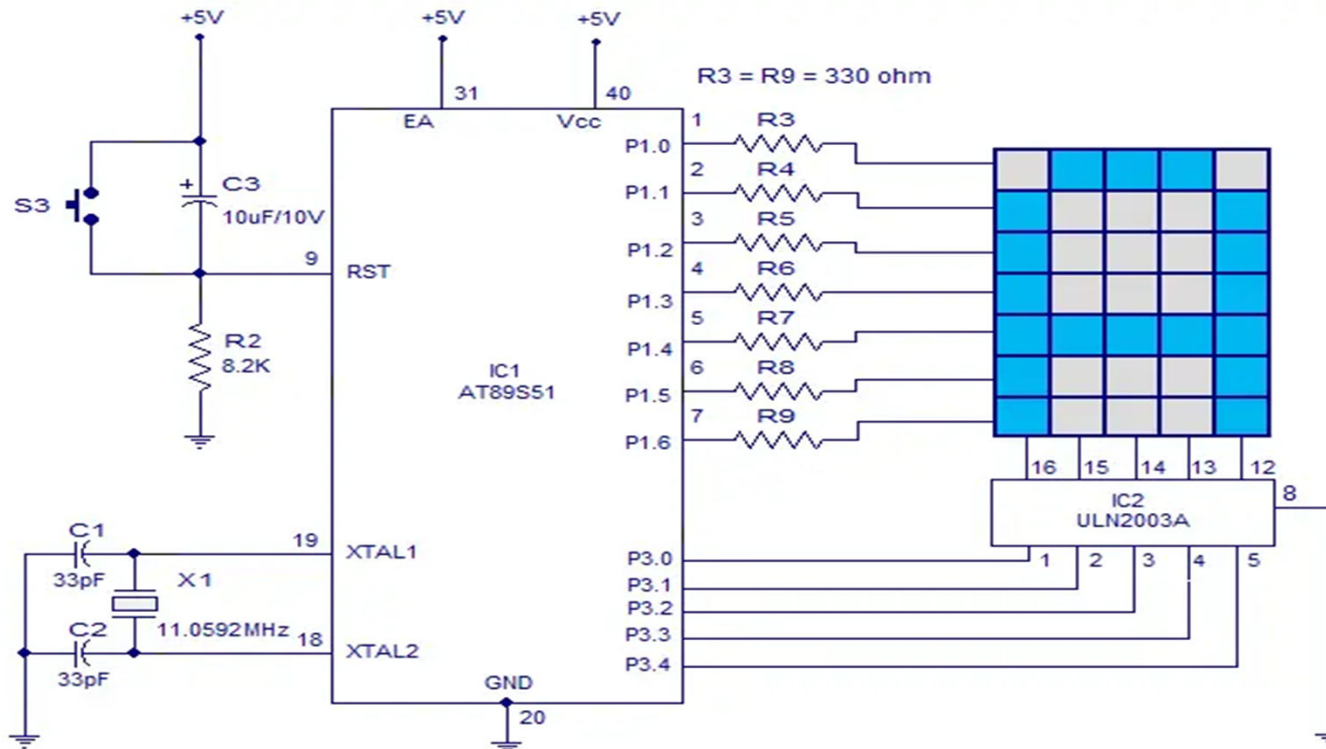
R1	R2	R3	R4	R5	R6	R7	C1	C2	C3	C4	C5
0	1	1	1	1	1	1	0	1	1	1	1
1 milli second delay											
1	0	0	0	1	0	0	1	0	1	1	1
1 milli second delay											
1	0	0	0	1	0	0	1	1	0	1	1
1 milli second delay											
1	0	0	0	1	0	0	1	1	1	0	1
1 milli second delay											
0	1	1	1	1	1	1	1	1	1	1	0
1 milli second delay											



Quick switching across the columns (~1mS interval) will result in alphabet "A"

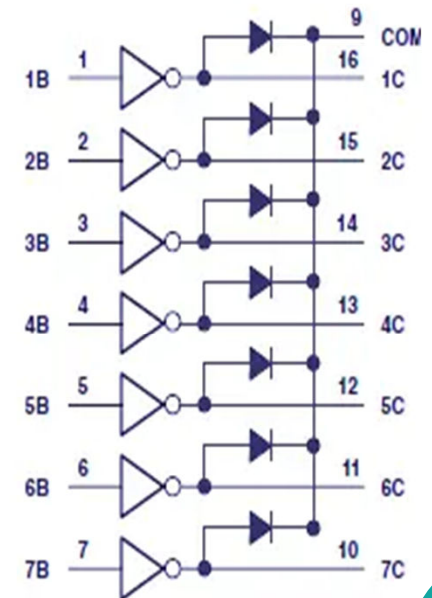


LED Matrix Display



www.circuitstoday.com

Logic diagram





LED Matrix Display

