

Research work 2

1. 5 microcontroller supplier companies-

1. NXP
2. Silicon labs
3. Microchip
4. Texas instruments
5. Panasonic

2. 5 microprocessor supplier companies

1. Amulet technologies
2. Cypress semiconductor
3. On semiconductor
4. EPSON
5. GHI electronics

3. What is SOC

An SoC in an embedded system is a chip that includes all the components that allow the chip to perform a specific function or action for the embedded system.

The components include

- Programmable processor
- Memory
- Input/output interfaces
- Ethernet shield

Examples

1. Smartphones
2. Tablets
3. Smart tv
4. Smart watch

4. Opcode

Is is a type of instruction to perform some operation like ADD, SUB, MUL, MOV.

EXAMPLES

MOV C,A

HEXCODE

Hexadecimal Number System uses 16 digits from 0 to 9 and A to F. The alphabets A to F represent decimal numbers from 10 to 15. The base of Hexadecimal numbers system is 16. There are sixteen numerals required.

5. Advantages of Digital system over Analog system

1. Digital circuits are more reliable.
2. Digital circuits are easy to design and cheaper than analogy circuits.
3. The hardware implementation in digital circuits, is more flexible than analogy.
4. Digital signals can convey information with less noise, distortion, and interference.
5. Power consumption in digital system is less as compared to Analog system.