Microcomputer

• A microcomputer is defined as __________
  ___________________________

• An embedded computer is one __________
  ___________________________
  ___________________________
  ____________________________________________
  and which is
  normally __________ to the user of the system
  in which it is located.

• Examples of embedded computers are
  • ______________
  • ______________
  • ______________
1.1 Microprocessor Systems

• Two Types
  -- ________________________
  -- ________________________
1.1 Microprocessor Systems

- Modules in a General Purpose Computer
  - 
  - 
  - 

1.1 Microprocessor Systems – CPU Module

- Clock and Control - 
- Address Decoder - 
  - 
  - 
- Address and Data Buffers - 
- Buffer Control - 
- Bus Arbitration - 
- Memory Management - 
  - 
  - 
  -
1.1 Microprocessor Systems – Memory Module

- ROM
  - 
- RAM
  -
  -

1.1 Microprocessor Systems – Peripherals Module

- Serial Port
  -
- Parallel Port
  -
- Timer
  -
  -
- Disk Controller
  -
- Bus Controller
  -
1.2 Examples of Microprocessor Systems – Personal Computer

Figure 1.4 Block diagram of a personal computer

1.2 Examples of Microprocessor Systems – Digital Thermometer

Figure 1.5 Block diagram of a digital thermometer system

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1.2 Examples of Microprocessor Systems – MCU Digital Thermometer

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