

## Embedded Zig - Bee Development

### Technical Specifications :-

The system should be based on IEEE 802.15.4 with ISM2 with one master coordinator and 4 End Devices (Zig Bee configured as per below specifications) with indoor and outdoor range 100-300. A)

- A) Zig Bee Coordinator** (Qty. 1 No.)
- > The coordinator (based on 8051 )
  - > With max stream Zig Bee model
  - > Zig Bee based ISM- 2.4 GHz with integrated chip antenna
  - > Supporting various Network Topology with RF data rate 250 KBPS
  - > With software selectable Data rate, with input / output range 100Ft /300Ft.
  - > With power supply 2.8V.
  - > 8 Channel A/D
  - > 8 Digital Input / Output
  - > 2-PWM Output
  - > 89C51RD2 C with ISP features
  - > 4K E2PROM on chip RTC.
  - > RTC with battery back-up.
  - > Two 12V relays with isolated O/Ps.
  - > Development 16X2 LCD display & seven segment display.
  - > 8 I/Ps from DIPswitches.
  - > 8 O/Ps available on LED's
- b) Zig Bee End Devices** (Qty. 4 No.)
- > Zig Bee End Devices based on SI8051F005
  - > Zig Bee based ISM- 2.4 GHz with integrated chip antenna
  - > Supporting various Network Topology with RF data rate 250 KBPS
  - > With software selectable Data rate, with input / output range 100Ft /300Ft.
  - > With power supply 2.8V.
  - > 8 Channel A/D
  - > 8 Digital Input / Output
  - > 2-PWM Output
  - > With Zig Bee modules configured for End Devices Slaves.
  - > With 4 Dip switches, 1 Relay and Buzzer output, Battery Operated,
  - > 2 Complete port for output connections, 16 character LCD Display etc.



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