iNode Main controller

I/O requirements:

1. ESP12F based board.
2. Design has :
   1. Mux-Demux select pins :
      1. SEL0 = pin 5 – D1
      2. SEL1 = pin 4 – D2
      3. SEL2 = pin 0 – D3
      4. SEL3 = pin 13 – D7
      5. EN = pin 14 – D5
      6. DIN = pin 12 – D6
      7. DOUT = pin 2 – D4
   2. A0 pin to ne brought out for analog connection
3. The board has 8 Outputs [ extensible to 16 ]
4. The board has 8 inputs [ extensible to 16 ]

POWER :

1. The board will have 5V input as power

PROGRAMMING :

1. The board needs to be programmed over UART , hence need to bring out the programming I/Os