### 3.8 POWER MODE

The M90E32AS has four power modes. The power mode is solely defined by the PM1 and PM0 pins.

**Table-2 Power Mode Mapping**

| PM1:PM0 Value | Power Mode |
|---|---|
| 11 | Normal (N mode) |
| 10 | Partial Measurement (M mode) |
| 01 | Detection (D mode) |
| 00 | Idle (I mode) |

Active Energy Pulse Output Interrupt (Isolated)

***VCC < 80V DC

Reactive Energy Pulse Output Interrupt (Isolated)

***VCC < 80V DC

MODBUS Connector (RS485)

ATM90E26 Interrupts For External System

ESP32 Module

SPI Header (Can be used with external system if required)

Energy IC (ATM90E26) communication Pin Fuction Selector (UART-SPI)

ESP32 GPIO0 Boot (Programming)

USB Connector (Progamming and Debugging)

Comport (UART) RX/TX Status LEDs

DHT22 Sensor

Power Mode Selection Jumper.

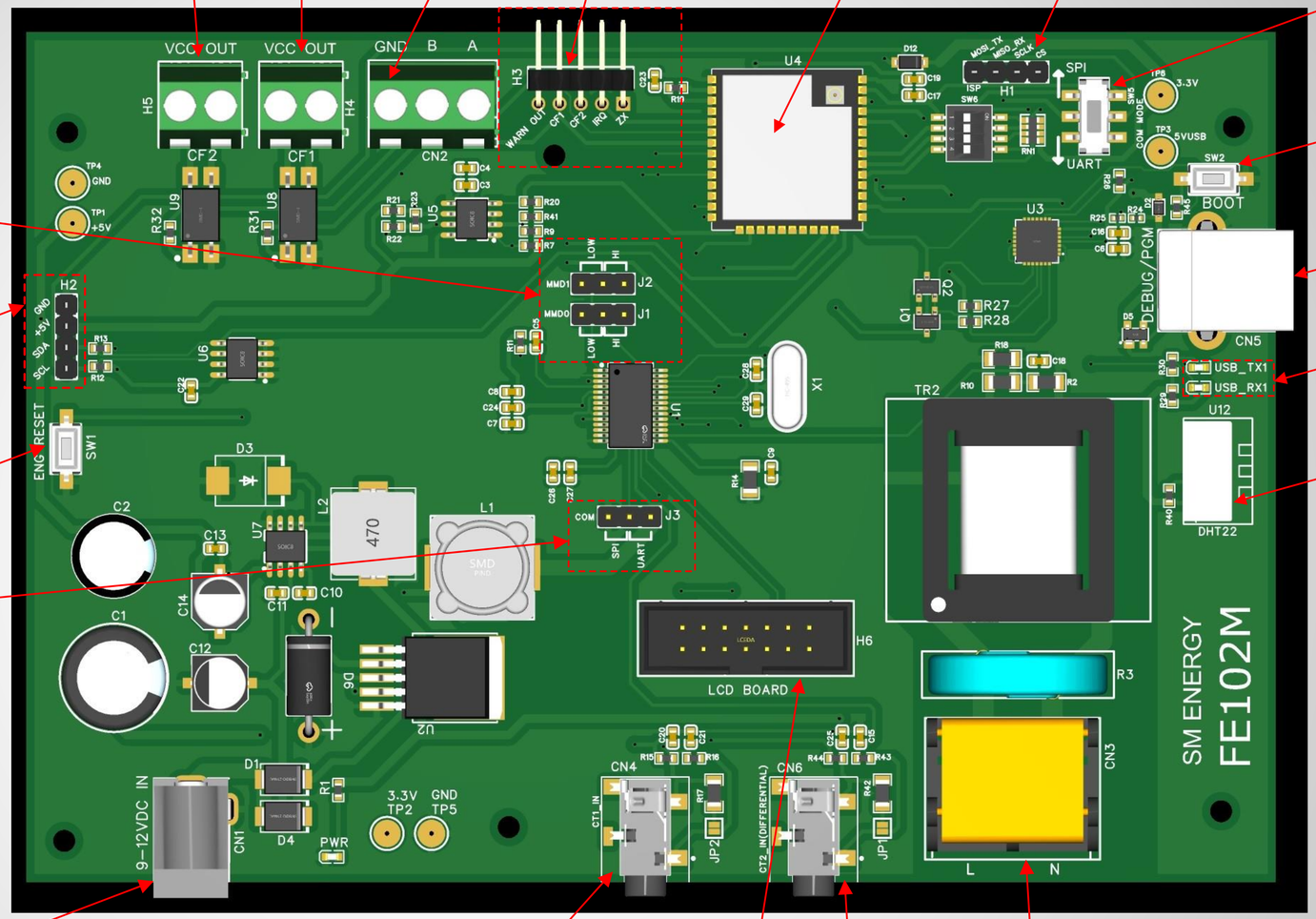
***Note – Refer Above table or ATM90E26 data sheet to select meter mode settings

I2C LCD (on Top Panel)

ATM90E26 Energy reset

SPI/UART Mode Selector J3

***Note – When Change the J3 settings UART/SPI Com mod switch SW5 also change accordingly to mach communiction with ESP32




9 – 12V DC Input

Line CT Input

Front Panel IDC connector

Netral CT Input

Line Input (Voltage)

Current Transformers Can be Used:

20A/25mA SCT-006
30A/1V SCT-013-030 (JP1 and JP2 jumper Should be Open)
50A/1V SCT-013-050 (JP1 and JP2 jumper Should be Open)
80A/26.6mA SCT-010
100A/50mA SCT-013-000
120A/40mA: SCT-016
200A/100mA SCT-024
200A/50mA SCT-024

*** Note: JP1 and JP2 Links Should be open When using Voltage output type current sensors.
For Current Output types above jumpers should be shorted.