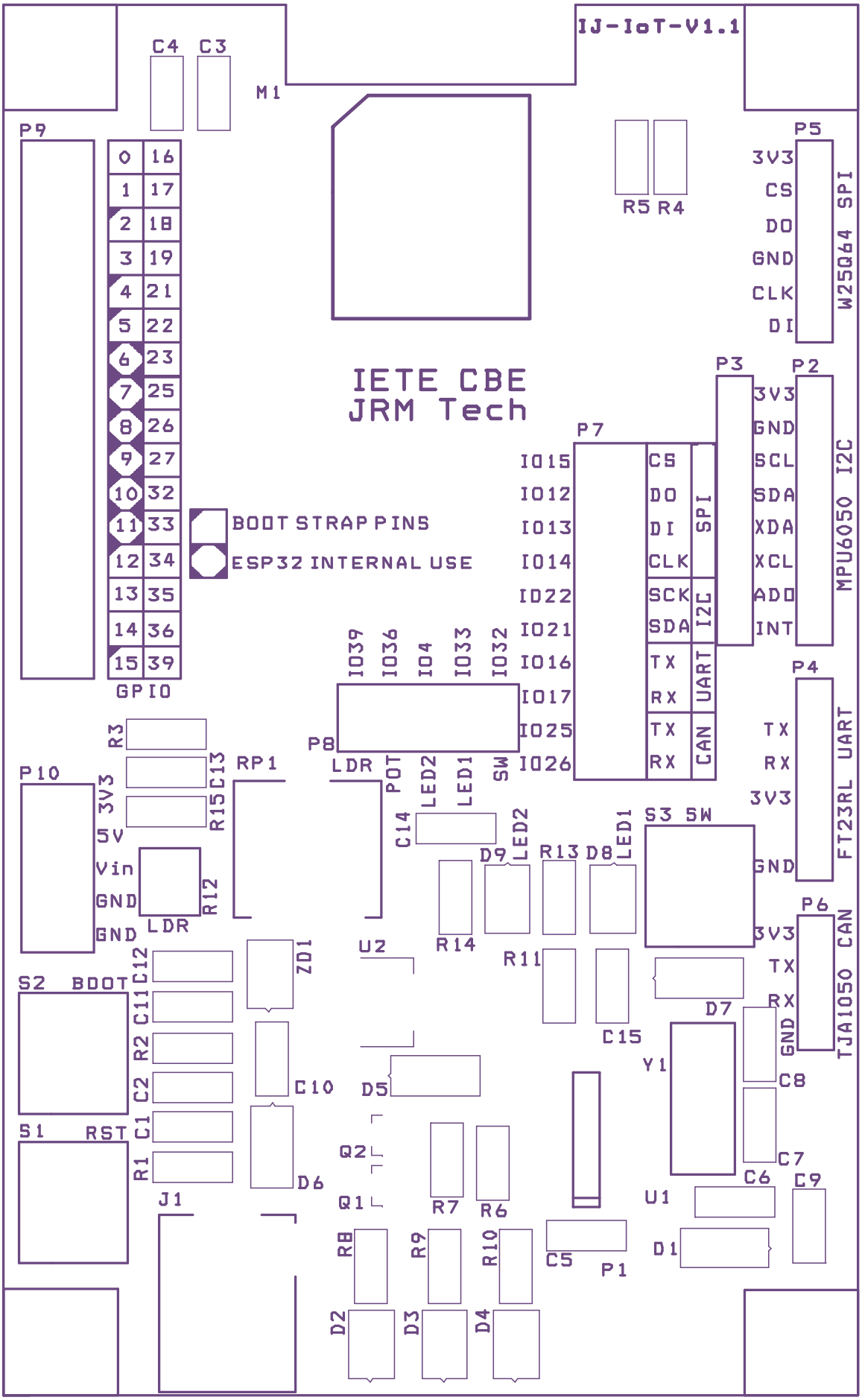
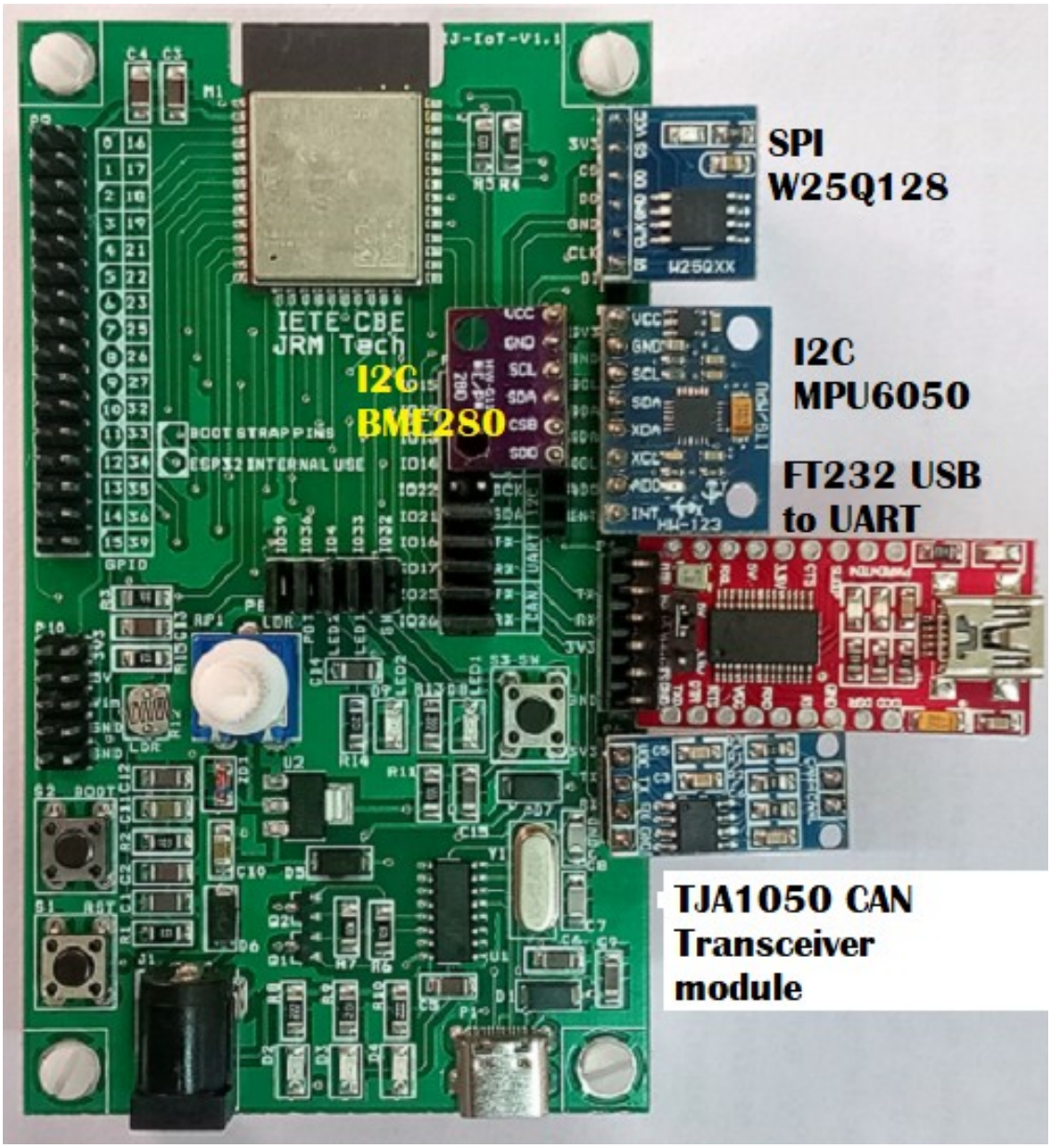
IETE CBE IoT Lab-in-a Packet





IETE CBE IoT Lab-in-a Packet with Sensors and Communication Modules.

- Based on ESP WROOM32 Wi-Fi (802.11 b/g/n) + BLE Module (BLE 4.2)
- Based on the need, module can be changed
- On-board Reset and Boot Push Buttons.
- Supports LwIP and FreeRTOS
- On-board User LEDs (2 Nos), one Push Button, One 10K Analog POT, LDR. (Connected to default IOs through Jumpers and can be connected to any IOs for assessments purposes)
- CH340 based USB to UART Converter.
- On-board Type C Connector for powering the Board, Programming the Module, Serial Port.
- On-board DC power jack to power the Board from External DC Power Source.

- On-board Connectors for 5V. 3.3V, Gnd to power additional components
- On-board connectors for UART, I2C, SPI and CAN Modules. (Connected to default IOs through Jumpers and can be connected to any alternate IOs for assessments purposes)
- On-board Connectors for direct plugging of 3-Axis Gyroscope and Accelerometer MPU6050, CAN Transceiver TJA1050, USB2UART FT232 Module, 8 MB SPI based Data Flash module W25Q64.
- PCB : High Quality double sided Glass Epoxy. Size ; 60mm * 105 mm
- **Best Suitable for Training and Prototyping IoT Products.**

We can also have RS485 transceiver in the place of FT232 Module.

This board is already equipped with LEDs (Digital O/P, Buttons (Digital I/P), POT and LDR (Analog I/P) for User Access through default jumpers.

Above LEDs, Buttons and Sensors can be connected to any available GPIOs by removing Jumpers.

LED1	GPIO 33	User Digital O/P
LED2	GPIO 4	User Digital O/P
S3 SW	GPIO 32	User Digital I/P
S2 Boot	GPIO 0	User Digital I/P
POT	GPIO 36	User Analog I/P
LDR	GPIO 39	User Analog I/P

For more details, drop a mail to training.jrmtech@gmail.com or visit https:sites.google.com/view/jrm-lips