

ESHD: Assignment 7

1. Place symbols of 3 required RF Modules and all relevant components, including a voltage regulator U12 to feed Wi-Fi Module, - on page 4. Assign footprints to all of them.
Copy everything from sheet 10 of IoT Kit into your page 6.
2. Check that all components have appropriate footprints in their properties (menu: Tools → Edit Symbol Fields). Without them it is impossible to design and create a PCB. **2 points**
3. Solder 8-pin connector to the FRAM PCBA. Connect FRAM PCBA to STM32L475 PCBA using jumper wires. Submit a picture showing physical connection of the PCBAs. **2 points**
4. On sheet 10 of the IoT Board, there is LED2, fed through resistor 330 Ohm. Calculate the current going through LED (and supplied by uC). This question is for **3 points**.
5. On sheet 10 of the IoT Board find User's Pushbutton: calculate voltage value on the input EXTI13 of the microcontroller at 300us after closing B2. This question is for **3 points**.