STM32DEMO documentaions:

IDE :

When selecting Pins holding Control and connect to the pin will give u other ortentave that u may use that will help u a lot during routing for the PCB

All pins and Reference can be obtained from Datasheet please refer for more information regarding pins but for the most part the important pins to start with is :

A screenshot of a computer screen

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RF1: radio frequency or Bluetooth interface to our antenna

VSS(Rf,MPS): Ground Pins

## Power the board:

Referring to the applications notes we can see that for power VDDT VDD VDD and VDD battery all connected and got a couple of decoupling capacitors for filtering and one of those as we can see it has a relativilty large value which is C6 which usually called bulk decoupling capacitor

A diagram of a circuit board

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While VDD USB and VDDA are separated

But for the calue of the voltage supply we will be referring to the specific datasheet that we are using A screenshot of a computer program

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A computer screen shot of a diagram

Description automatically generatedSchematic

Reference :

<https://www.st.com/resource/en/application_note/an2867-oscillator-design-guide-for-stm8afals-stm32-mcus-and-mpus-stmicroelectronics.pdf>

<https://www.st.com/resource/en/application_note/an5165-how-to-develop-rf-hardware-using-stm32wb-microcontrollers-stmicroelectronics.pdf>

<https://www.st.com/resource/en/datasheet/stm32wb55ce.pdf>