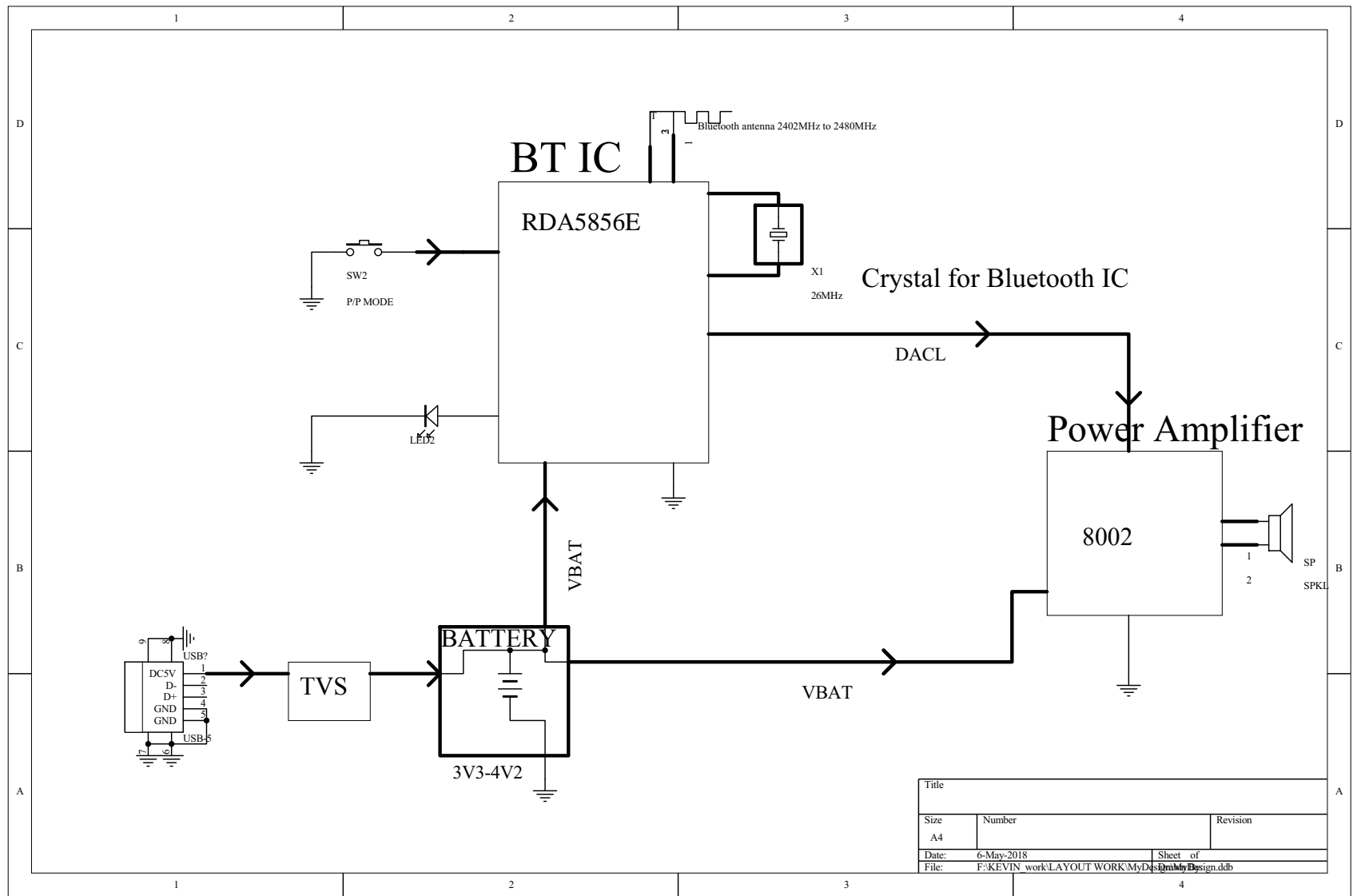


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3. Function Block Diagram

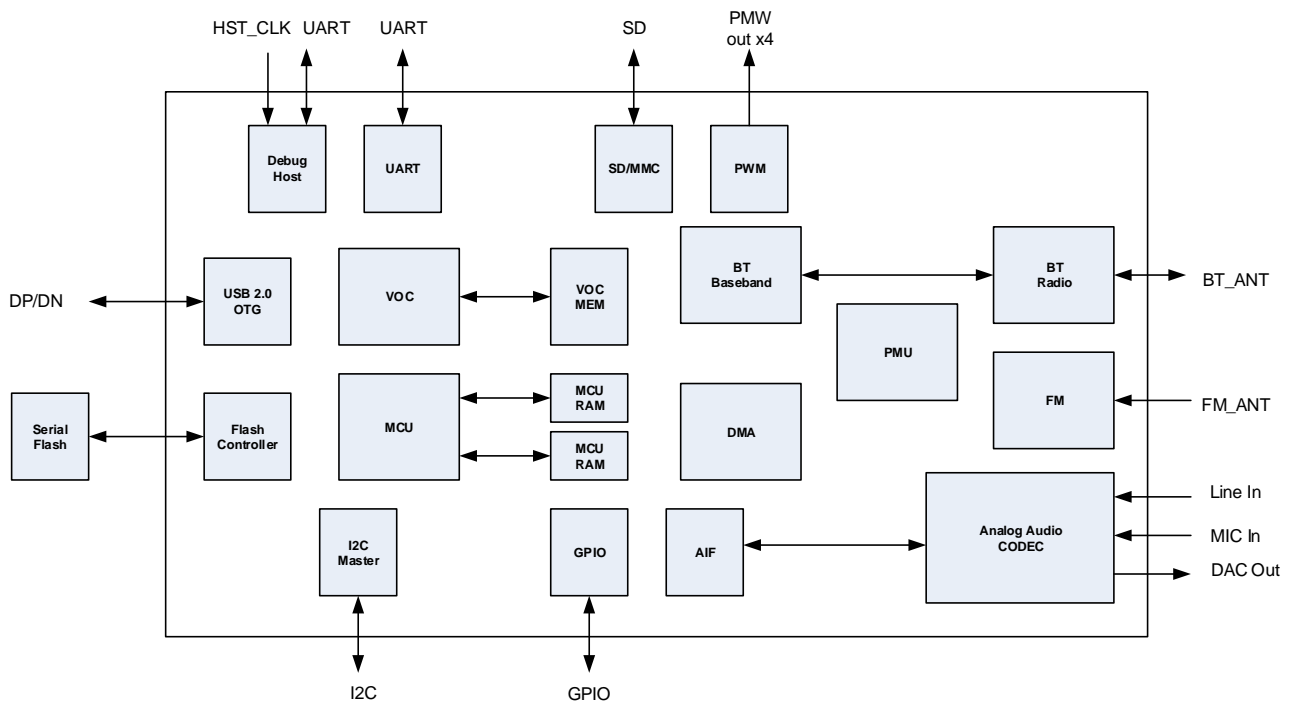


Figure 2 RDA5856TE Block Diagram

4. Clock and reset

RDA5856TE has a reference clock input from either a crystal or an external clock source. There are two internal PLL which use XTAL clock as reference. They are used for system and audio applications.

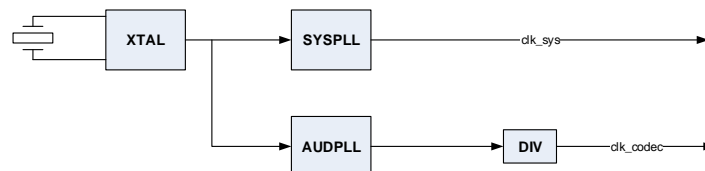


Figure 3 Clock Structure

RDA5856TE has several reset sources, as following:

- POR
Entire SoC is reset after power supply ramping from 0v to VBAT.
- External Pin Reset
Entire SoC is reset except PMU.
- Warm Reset
 - ✓ Global soft reset
DBB can be reset by set soft reset register in system control register map.
 - ✓ Watch Dog Reset
DBB will be reset when watch dog timer expired.

5. MCU

RDA RISC is a 16/32-bits processor which using a Reduced Instruction Set Architecture, an efficient 6-stage instruction pipeline, it provides high performance to the system.

- RDA RISC Core.
 - ✓ 32x32-bit Multiplier.