

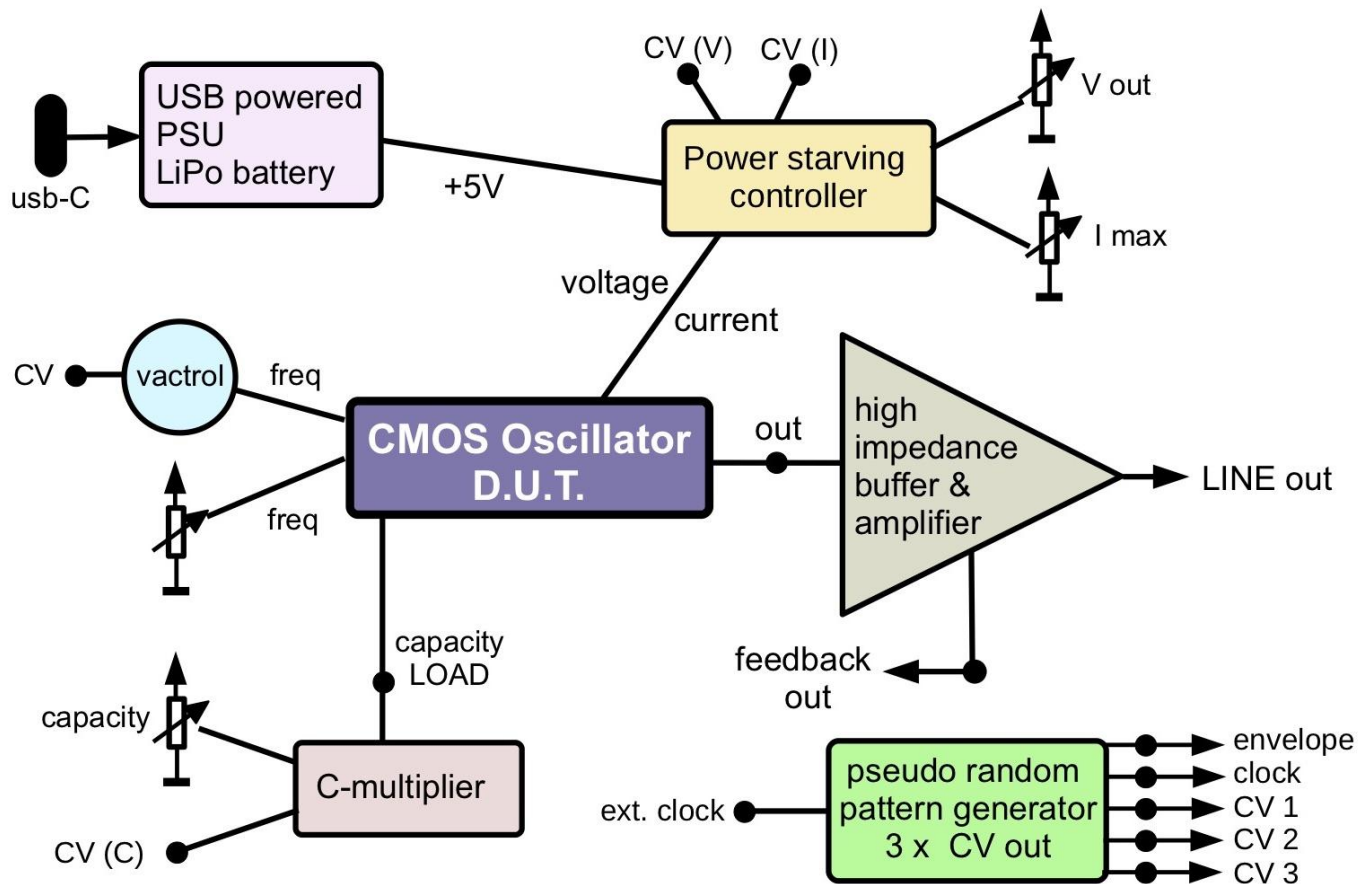
dBm 2025 program

building test hardware

our dBm research system consists of these modules :

- Power supply : USB powered, LiPo battery, 5V out
- Power starving controller : voltage and current control with potentiometers & CV inputs
- CMOS oscillator (D.U.T.) : various topologies of Schmitt-Trigger based squarewave oscillators
- High impedance buffer & amplifiers: line and feedback outputs Potentiometers for gain and feedback
- C-multiplier: electronically variable capacitance with potentiometer and CV control. Acts as capacitive load for D.U.T.
- triple CV out pseudo random pattern generator : for controlling CVs of power starving controller and C-multipliers
- vactrol module : DIY dual vactrol with exponential CV control for potentiometer replacement in D.U.T.

overview experimental dBm setup



module details

WARNING : following schematics , layouts and documentation is WORK IN PROGRESS. Expect many changes during dBm 2025 week !

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