

Practical case: Noise suppression with RF choke

Level: Medium - Demonstrate the high impedance of the inductor at high frequencies to block noise in power lines.

Objective and use case

You will...

Practical case: Resonance in LC tank circuit

Level: Medium | Analyze the energy exchange and determine the resonant frequency of an AC-driven LC tank.

Objective and use case

In this practical case,...

Practical case: Boost converter storage

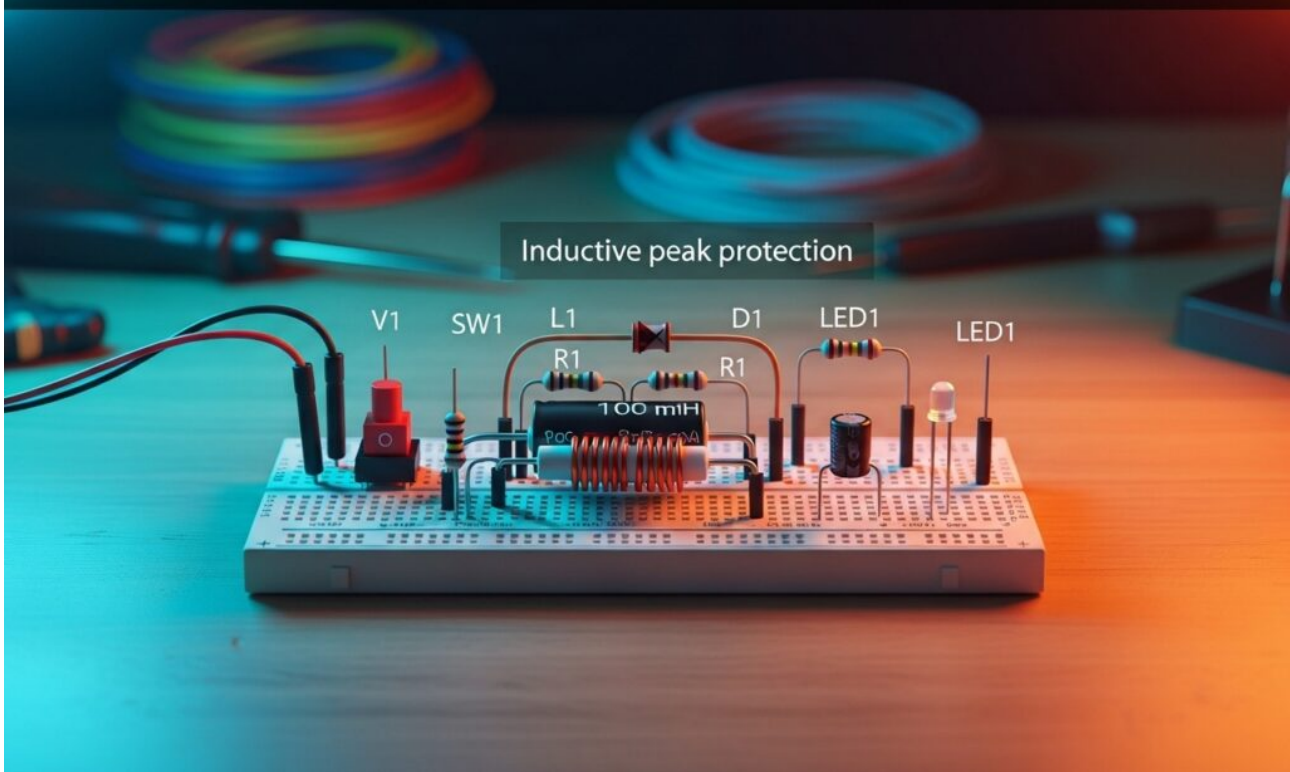
Level: Medium | Understand magnetic energy storage to boost voltage.

Objective and use case

In this practical case, you will build a basic open-loop Boost...

Practical case: Inductive peak protection

Inductive peak protection



Level: Medium | Objective: Analyze the transient voltage generated when disconnecting an inductor and mitigate it using a flyback diode.

Objective and use...

Practical case: voice-controlled RUN/STOP on ULX3S

voice-controlled RUN/STOP on ULX3S

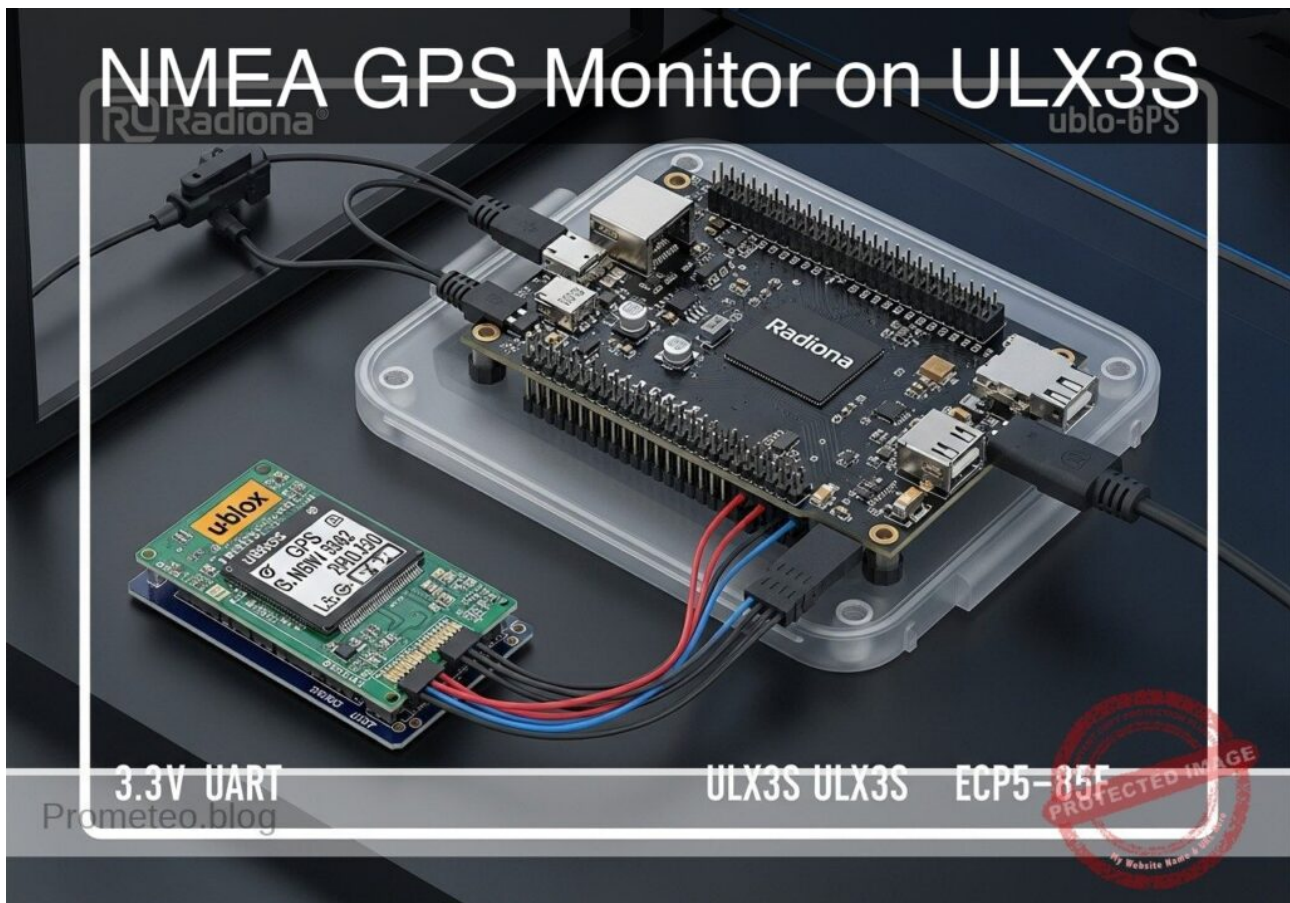


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A compact FPGA voice-activity burst detector on a Radiona ULX3S Lattice ECP5-85F using an INMP441 I2S MEMS microphone. A short, loud spoken burst such as...

Practical case: NMEA GPS Monitor on ULX3S

NMEA GPS Monitor on ULX3S



A practical FPGA-based GPS monitor using the Radiona ULX3S Lattice ECP5-85F , a u-blox NEO-6M GPS module, and 3.3 V UART wiring. It will receive NMEA data at...