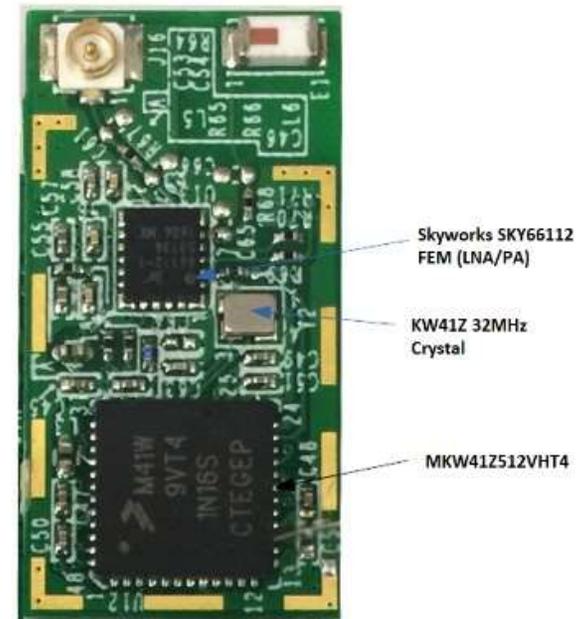


Overview

The KW41Z Power Amplifier (PA) reference design is a small form-factor module designed to increase communication range for products that need to communicate over long distances or in/through harsh environments. While this design features the KW41Z, it applies to KW31Z and KW21Z devices as well.

KW41Z PA reference design

- MKW41Z512VHT4
 - 512 kB Flash, 128 kB SRAM
 - BLE and IEEE 802.15.4 radios
- Skyworks SKY66112 FEM (PA/LNA)
 - Increases TX output power to greater than 20 dBm
 - Improves RX sensitivity to less than -103 dBm (IEEE 802.15.4 mode)
 - Integrated chip antenna and mini-RF connector
 - Increases the line of sight range to greater than 500 meters
- Small form factor (1.2 cm x 2.4 cm)
- Bypass power mode
- FCC/CE standards compliant



KW41Z-PA-RD base board features

- Push buttons
- User controlled LEDs
- Serial flash for over-the-air firmware updates
- OpenSDA debug/programming interface
- Arduino NANO compatible interface
- Sensor/NFC/LCD supported through Arduino interface

Arduino NANO compatible

