



Application Software Pack: Power Optimized Wearables User Interface for the i.MX RT595

APP-SW-PACK-POWER-OPTIMIZED-VOICE-UI

Last Updated: Feb 9, 2026

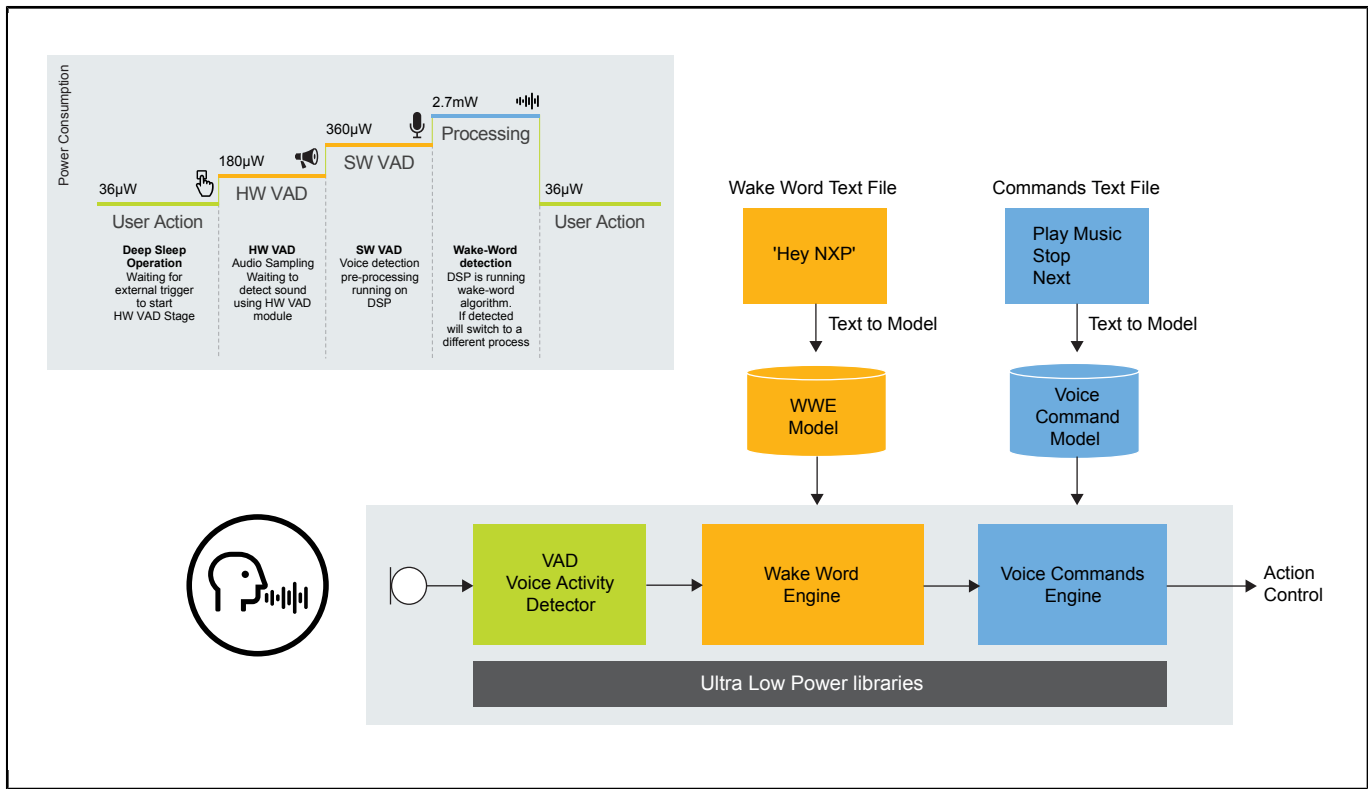
The Power Optimized Voice User Interface Application Software Pack provides embedded developers with production quality code that implements voice wake-up and voice command recognition using the i.MX RT595 Crossover MCU.

The software shows how to acquire voice data with a single-channel digital microphone in a low power mode while the MCU remains in deep-sleep mode until there is a valid voice.

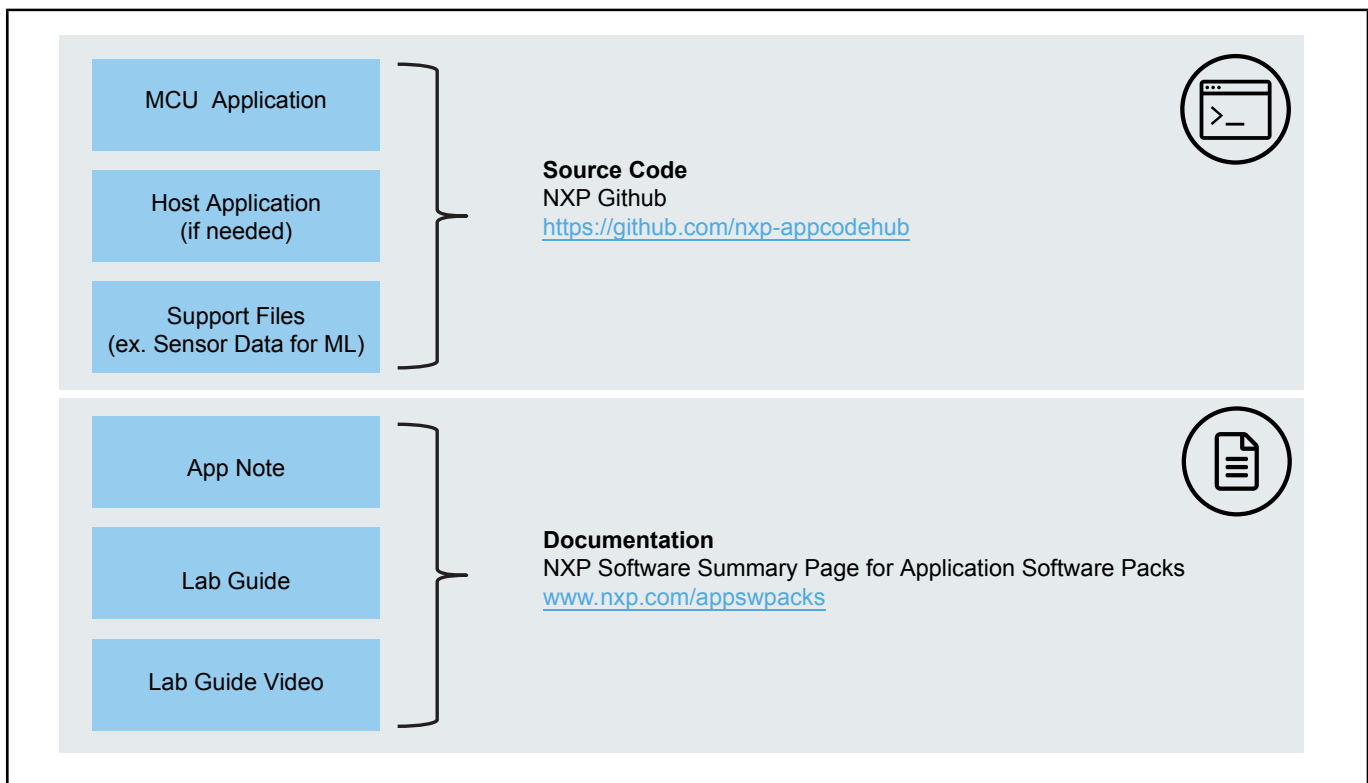
Voice intelligent technology (VIT) is used as the voice UI in this Application Software Pack. VIT provides always-on wake word detection and local commands supporting custom command definition and multiple languages.

Download this Application Software Pack and follow the steps found in the Lab Guide.

Power Optimized Voice UI Block Diagram Block Diagram



Application Software Pack Collateral Block Diagram Block Diagram



View additional information for [Application Software Pack: Power Optimized Wearables User Interface for the i.MX RT595](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2026 NXP B.V.