

Accelerate Wireless Innovation with Wi-R™ BAN Evaluation Kit

IXANA

The Wi-R Body Area Network (BAN) Evaluation Kit (EVK) provides a robust platform for in-depth performance assessment of the Wi-R chip, designed for both on-body and Evaluation Module (EVM) testing.

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Integrated Core Components

Features the YR23 Wi-R chip, an Ambiq microcontroller, and essential supporting components for robust functionality.

Flexible Data Rates

Supports data rates of 0.266, 1, 3.33, and 5 Mbps for diverse application testing.

User-Friendly Interfaces

Easy access to programming/ debugging and extensive connectivity via a 40-pin FPC connector (USB, UART, I2C, SPI, power bus).

Wearable Design

Compact, ergonomic form factor for comfortable wrist wear with a flexible silicon wristband ensuring a secure fit.

Advanced Power Management

Enables real-time power monitoring, rechargeable battery, magnetic charging, and a dedicated power button.

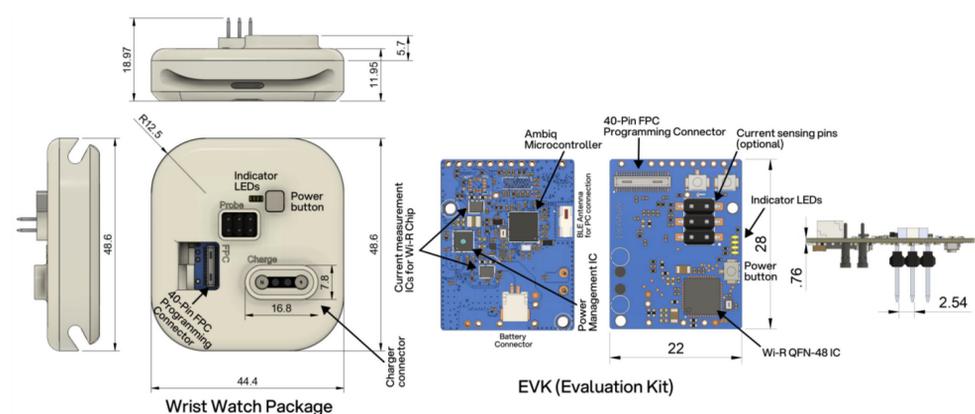
Intuitive LED Indicators

Four top-facing LEDs provide clear status for charging, power, initialization, and one user-programmable function.



YR23 Wi-R™ SDK for Custom Application Development

Accelerate your wireless application development with the ready-to-integrate YR23 Customer SDK, designed to streamline robust wireless solution creation with our cutting-edge Wi-R chip.



Precompiled Static Library

Streamline development with a powerful, easy-to-use static library for IC control, sleep/wakeup, and callback hooks.

Example Hardware Integration

Develop efficiently on the EVK PCB with provided example firmware and optimized pin assignments.

Developer-Friendly Toolchain

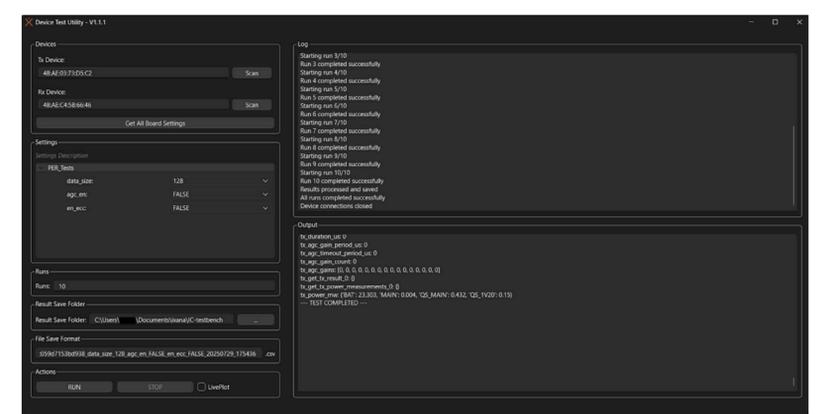
Get started quickly with a pre-configured build and debug environment using Visual Studio Code, CMake, and ARM GCC.

Out-of-the-Box Example Applications

Kickstart development with working firmware examples like basic Tx/Rx operation.

YR23 Wi-R™ Characterization Test Software Package

The IXANA Wi-R Test Utility offers a simplified interface for immediate Wi-R transmission and rapid characterization for near-field and on-body applications.



Device Management

Automatically scans for and allows selection of TX/RX devices via BLE, validating pairings and supporting multi-device connections.

Data Visualization & Monitoring

Processes raw data into metrics like PER, Throughput, and Tx/Rx Power Consumption, with optional real-time plotting.

Test Configuration & Setup

Easily select from test configurations, with automated file naming and export of results in CSV format.