

Unlock the Power of Long-Range Wireless Connectivity

Get complete, cutting-edge wireless technology right into your fingertips. The AD-MAX32WISE is designed to enable seamless integration and rapid deployment of wireless applications.

MAX32670 Microcontroller Module. Ultra-low power ARM® Cortex™-M4 core with advanced security features, extensive memory, and long-lasting battery performance.

High-Performance RF Transceiver. Choose between the SX1261 for robust long-range communication or the LR1110 for additional GNSS and Wi-Fi scanning capabilities, tailored to your specific needs.

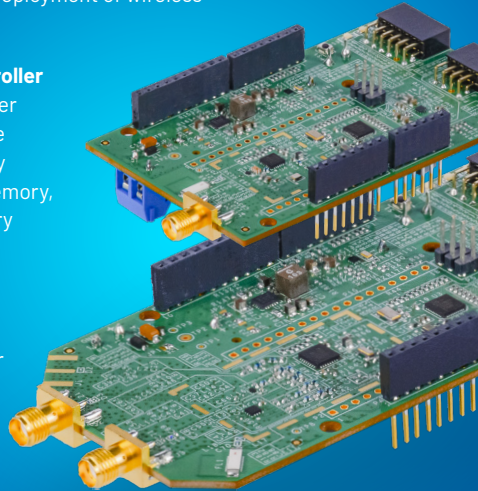
Flexible Connectivity Options.

Support for multiple modulation schemes and sub-GHz ISM bands, enabling a wide range of applications, from industrial sensors to smart agriculture.

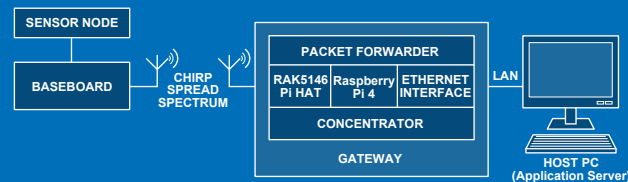
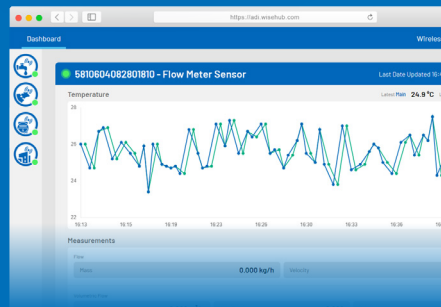
Comprehensive Development Tools.

Access to development boards, software libraries, and detailed documentation, ensuring a smooth and efficient development process.

WiSe Hub Software



From top: The MAX32670-SX-ARDZ and MAX32670-LR-ARDZ Baseboards



AD-MAX32WISE-SL System Architecture

Why Choose AD-MAX32WISE-SL Kits?

With an extended device lifespan, remarkable wireless coverage, and top-tier security feature, the AD-MAX32WISE-SL kits accelerate your development for IoT, asset tracking systems, or smart agriculture solutions.

What's in the Box

Kit	AD-MAX32SXWISE-SL	AD-MAX32LRWISE-SL
Baseboards	MAX32670-SX-ARDZ	MAX32670-LR-ARDZ with GNSS
Sensor Nodes	EV-STRUCTURAL-ARDZ EV-FLOWMETER-ARDZ EV-ADE90000-SHIELDZ	EV-CATTLETAG-ARDZ
Quick Start Essentials	RAK5146 PIHAT Kit, Raspberry Pi 4 Model B with Power Supply, MAX32625PICO, LAN Cable, MicroSD Card	

Let's Talk

We'd love to hear from you!

Learn More

To learn more about AD-MAX32WISE solution kits, scan the QR codes below or go to analog.com.

Support Requests

For any support requests on the solution kits, please reach us at ez.analog.com.



Scan me to access AD-MAX32SXWISE-SL Product Page



Scan me to access AD-MAX32LRWISE-SL Product Page



Scan me to access ez.analog.com



Ultra-low Power, Long-Range, Wireless IoT Sensor

AD-MAX32WISE-SL Development Kit for IoT Applications



AD-MAX32WISE Kits

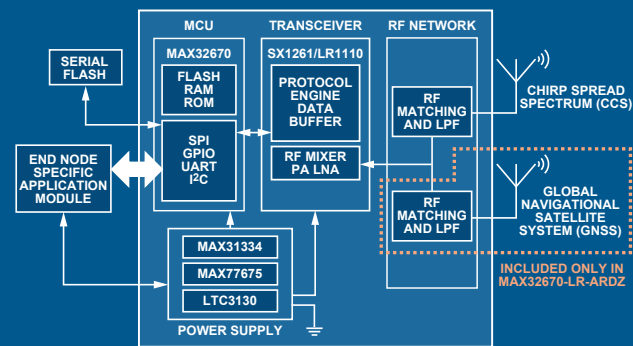
Stay Connected. No Matter the Distance.

Tailor your connectivity with the versatile AD-MAX32WISE solution kits, designed to handle vast wireless range.

MAX32670-SX-ARDZ

Based on MAX32670 Ultra-low Power Arm Cortex-M4 Microcontroller and SX1261 RF Transceiver.

The MAX32670-SX-ARDZ delivers high performance with its ARM® Cortex™-M4 core, with 800 MHz to 960 MHz frequency range, and 384 kB of error-correcting flash memory. It ensures secure operations with features like secure boot and advanced cryptography. Designed for longevity, it offers support for various modulations and transmitting data up to 15 km*, with sensitivity as low as -148 dBm.



AD-MAX32WISE-SL Simplified Block Diagram

MAX32670-LR-ARDZ

Built with the MAX32670 MCU and LR1110 RF Transceiver.

The MAX32670-LR-ARDZ is an ARM® Cortex™-M4-based microcontroller board with 384 kB flash memory and 160 kB SRAM. It enhances security with secure boot and robust cryptographic support. Expect exceptional battery life, powerful wireless capabilities, and data transmission up to 15 km*. Exclusive features include a GNSS scanner and Wi-Fi MAC address scanning for advanced applications.

*When using an external antenna on ideal conditions

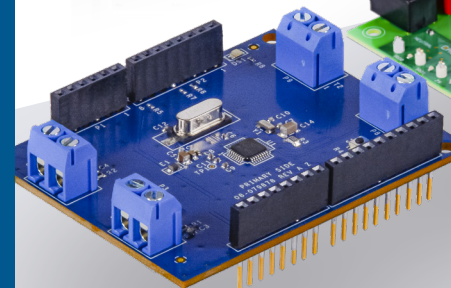


AHEAD OF WHAT'S POSSIBLE™

Instruments for Diverse Needs

Select from a range of instruments designed to seamlessly integrate with our AD-MAX32WISE-SL kits.

EV-FLOWMETER-ARDZ Low Power Heat and Flow Measurement Sensor



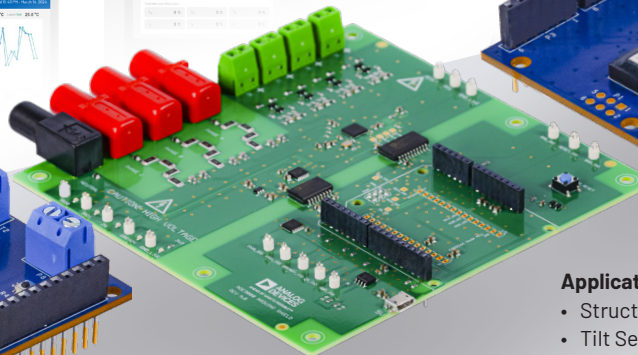
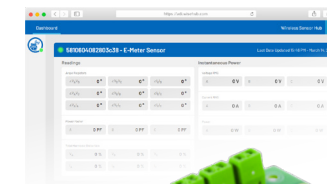
Applications

- Ultrasonic Heat Meters
- Ultrasonic Water Meters
- Ultrasonic Gas Meters
- Utility Metering
- Environmental Monitoring

Key Components

- MAX35101

EVAL-ADE9000-SHIELD Smart Electric Metering Sensor



Applications

- Energy and Power Monitoring
- Power Quality Monitoring
- Protective Devices
- Machine Health
- Smart Power Distribution Units
- Polyphase Energy Meters

Key Components

- ADE9000

EV-STRUCTURAL-ARDZ Structural Health and Smart Building/Bridge Activity Sensor



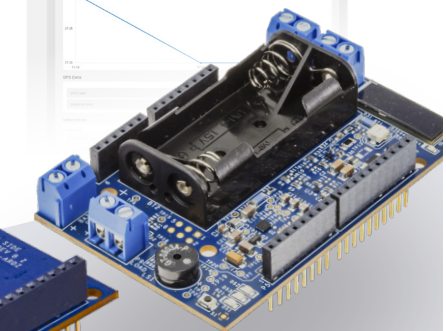
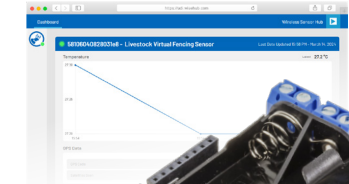
Applications

- Structural Health Sensors
- Tilt Sensing & Inclinometers
- Platform Control & Stabilization
- Motion/Position Measurement
- Security, Medical & Safety Devices

Key Components

- ADIS16203
- ADXL343
- MAX30210

EV-CATTLETAG-ARDZ Smart Livestock Tracking and Health Monitoring Sensor



Applications

- Battery-Powered Medical Devices
- Industrial Sensors
- Smart Sensors
- Asset Tracking

Key Components

- MAX20361
- MAX20335
- MAX20210