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INDUSTRIAL PRODUCT DATASHEET

Semtech LR2012 LoRa Plus Evaluation Kit-US915 | Semtech | LoRa | XIAO nRF54L15

Semtech LR2012 LoRa Plus Evaluation Kit-US915 combines Gen-4 LoRa performance, sub-GHz focus, and energy efficiency for prototyping LPWAN solutions across smart metering, agriculture, industrial, and smart city...

SKU	UPDATED	PRICE
100015571	2026-11-11 06:37:31	$99.00(Excl. VAT)



Overview



The Semtech LR2012 LoRa Plus Evaluation Kit-US915 delivers Gen-4 LoRa performance with sub-GHz focus, cost-optimized for LPWAN at scale, best-in-class energy efficiency, enhanced channel activity detection (CAD), and ready-to-go prototyping capabilities. It targets smart metering, smart agriculture, industrial sensing and predictive maintenance, and smart city and building applications.

Key Features

01 **Gen-4 LoRa Performance, Sub-GHz Focused**

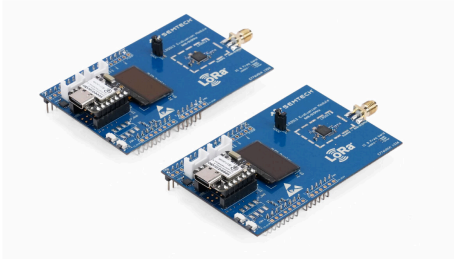
02 **Cost-Optimized for LPWAN at Scale**

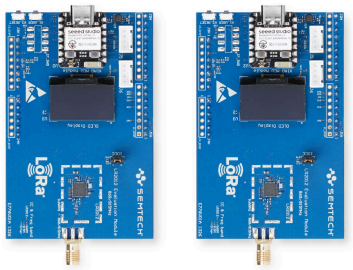
03 **Best-in-Class Energy Efficiency**

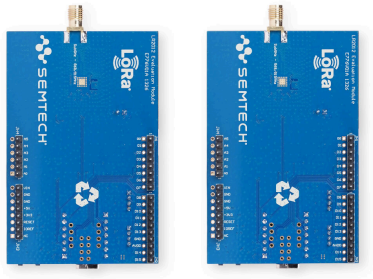
04 **Enhanced Channel Activity Detection (CAD)**

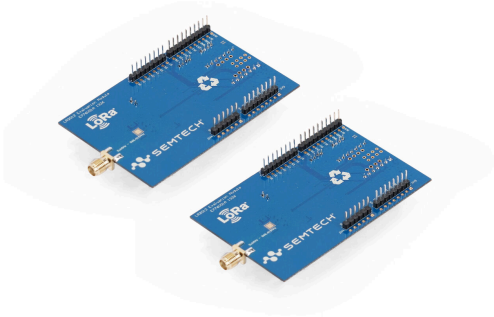
05 **Ready-to-Go for Prototyping**

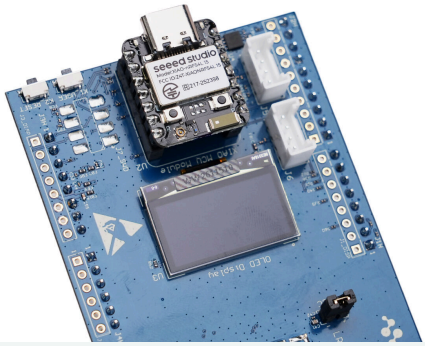
Product Gallery



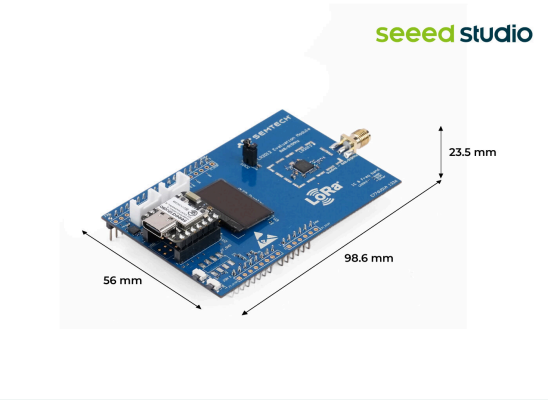




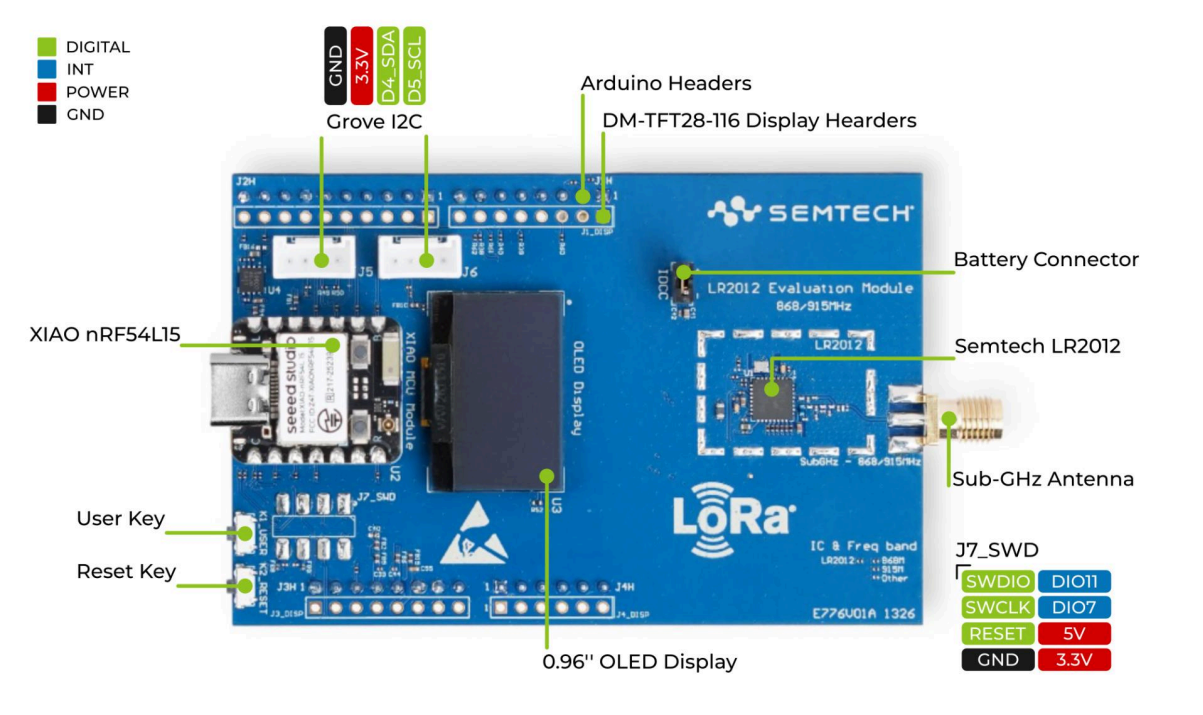


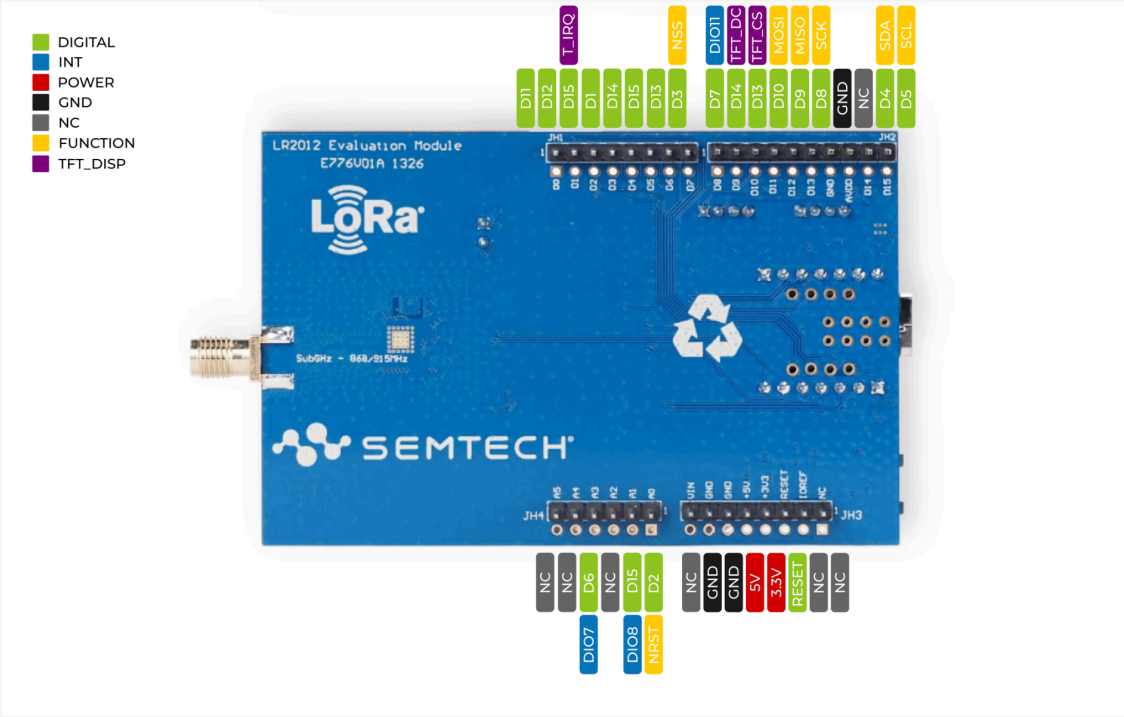





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23.5 mm
98.6 mm
56 mm

Hardware Overview





Applications

- **Smart Metering:** Industry customers have already selected the LR2012 for next-generation meter interface units — superior LoRaWAN performance, backward compatibility with legacy OOK meter infrastructure, and LR-FHSS support for scalable network capacity make it ideal for electricity, water, and gas metering roadmaps.
- **Smart Agriculture:** Ultra-long-range sub-GHz links connect soil moisture, irrigation, and environmental sensors across vast farmland, with multi-year battery life.
- **Industrial Sensing & Predictive Maintenance:** High link budget and improved interference resilience support battery-powered sensors in harsh industrial environments and extended outdoor deployments.
- **Smart City & Building:** Deep-indoor penetration for parking, lighting, and environmental monitoring nodes on LoRaWAN networks.

Resource Links

- https://www.seeedstudio.com/semtech-lr2012-lora-plus-evaluation-kit-us915-p-7005.html
- Semtech LR2012 Datasheet
- Semtech LR2012 US915 Expansion Board Schematic

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