Energous e-Sense (Preproduction samples)

The e-Sense tag completes the first fully integrated wireless-power IoT stack (transmitters, tags, and cloud). This tag brings a scalable asset intelligence, zero-maintenance operation, and sustainable infrastructure.

The Energous E-Sense ushers in a paradigm shift in Ambient IoT, this compact (4 × 5 cm), battery-free, waterproof wireless sensor is tailor-made for real-time location and temperature monitoring in retail, logistics, cold-chain, and supply-chain environments. Powered by energy harvested from Energous' over-the-air PowerBridge transmitters, the e-Sense tag delivers persistent intelligence at scale—without batteries, maintenance, or wired infrastructure

Additionally, the platform provides comprehensive asset management for Energous IoT sensors, including the eSense line. Users can register sensors, track inventory, monitor real-time and historical data, and even locate assets using a cloud-based positioning algorithm.

An intuitive user interface simplifies system setup, allowing businesses to deploy a fully functional ecosystem in minutes. With this platform, organizations can reduce operational complexity, accelerate time-to-value, and gain deeper visibility into their connected assets—all from a single, scalable cloud environment.

Full-Stack IoT Ecosystem

The e-Sense tag completes Energous' end-to-end wireless power platform. When used alongside PowerBridge transmitters and the AWS IoT-Core–backed e-Compass cloud platform, businesses gain:

- Uninterrupted asset visibility continuous energy autonomy enables relentless reporting of environmental and locational data.
- Operational simplicity eliminates battery swaps and wiring; tags are reusable, rugged, and waterproof in high-volume environments
- Data-driven decisions e-Compass supports zoning, analytics, historical reporting, and regulatory compliance across enterprise-scale deployments.



Product Highlights

- Zero-maintenance, true sustainability
- The tag draws power over the air, eschewing batteries and slashing operational overhead

> Enterprise-grade design

• Rugged form, IP waterproofing, and reuse engineering make it ideal for demanding logistics, retail, and cold-chain applications

Seamless compatibility

• Optimized exclusively for PowerBridge transmitters, the platform delivers total integration, simplified deployment, and cost efficiency compared to battery-powered alternatives

Comprehensive IoT Sensor Management

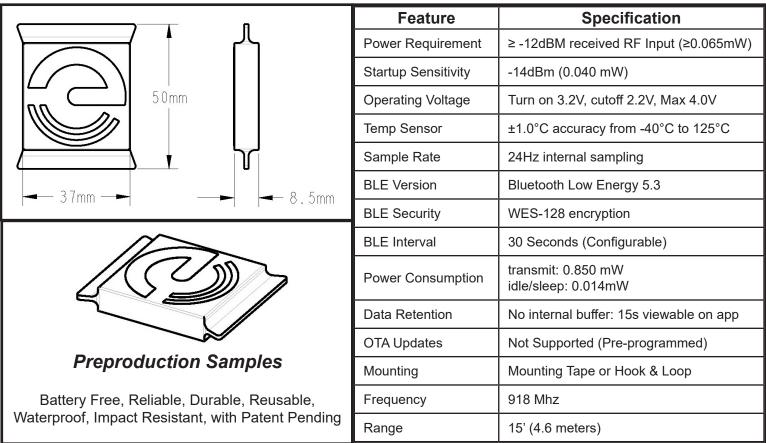
- Optimized for Energous eSense sensors and compatible IoT devices
- Enables:
- Sensor registration & ownership tracking
- Real-time & historical data monitoring
- Cloud-based location detection algorithm

> Fast Deployment with Intuitive UX

- User-friendly interface enables ecosystem setup in just minutes
- Designed for quick onboarding, configuration, and scaling—no deep technical expertise required

Energous e-Sense

Tech Data for Preproduction Samples



Energous Tag Interface

General Information							
MAC	A0873A91B6E4						
Name	ESense-T16						
First Seen	06/09/2025 - 3:00:30	PM					
Last Seen	06/12/2025 - 7:42:33 /	AM					
Date	06/12/2025						
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		12-15	15-18	18-21	21-24)	
		5m	15m	30m	1h)	
			Array Vol	tage - mV			
			-O · min ·	••• avg ••	• max		
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