

SoniLink Hub

**Longer range with higher capacity
for large scale deployments &
simple configuration for
plug-and-play operations**

Your secure, resilient and redundant solution
for dense monitoring environments



A New Standard in Wireless Connectivity

SoniLink is the new standard connectivity option for your wireless monitoring platform. Leveraging the LoRaWAN standard for low power, and wide-area (LPWA) networking, SoniLink wirelessly connects Sonicu sensors and meters to the cloud platform and provides a superior range compared to Wi-Fi, Zigbee or Bluetooth connectivity options.

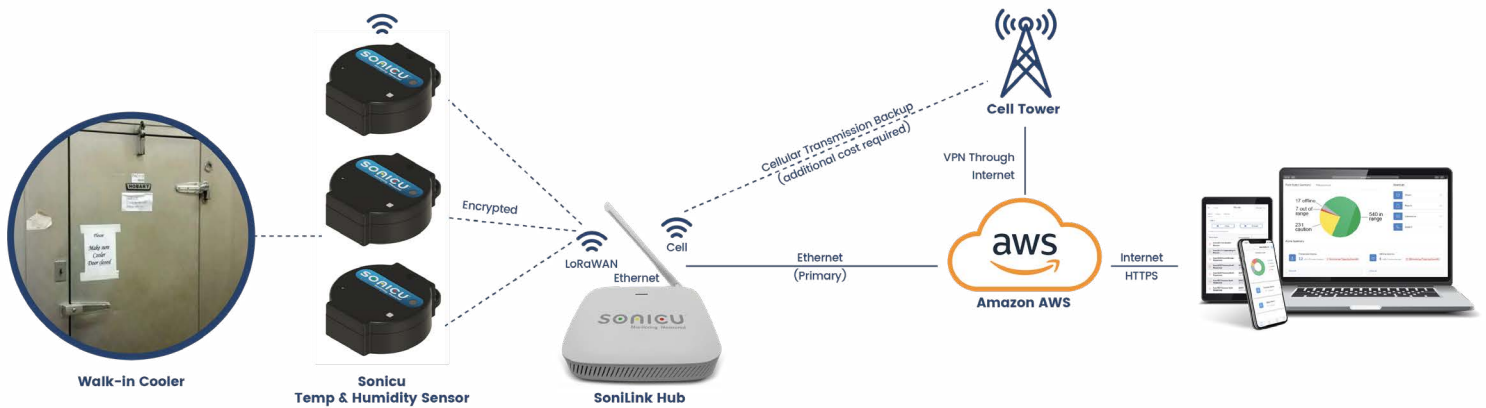
Sonicu sensors require zero configuration to connect to SoniLink hubs, dramatically simplifying the deployment of Sonicu monitoring solutions. For customers with low IT involvement, a cellular-based version of the SoniLink Hub enables rapid deployment without IT resources.

Each SoniLink hub can accommodate hundreds of Sonicu sensors, allowing organizations like hospitals, universities, distribution centers, and manufacturing facilities to minimize their hardware footprint by placing centralized hubs throughout their facilities.

Faster deployment, superior range, decreased IT resources, and a smaller hardware footprint all add up to a better ROI for customers choosing SoniLink!

SONILINK FEATURES:

- 1. Range and Capacity:** SoniLink delivers industry-leading scalability
- 2. Up to 500 sensors supported** by a single SoniLink Hub Sensor
- 3. Transmission range is significantly better than Wi-Fi** or other 900MHz RF options.
- 4. Only a minimal number of SoniLink Hubs are needed** to support large scale deployments of thousands of Sensors



Simple Redundancy

- Cell to Cell failover options
- Add Secondary hubs anywhere for configuration-free redundancy.
- Automatic configuration: Zero Hardware configuration required to transmit data.

Simple Configuration

- Cellular connectivity hubs ready for deployment without any IT intervention.
- Zero Hardware configuration requirements

Superior Range and Scalability

- Extended range between sensors and hubs simplifies installation
- SoniLink hubs handle 500 sensors, reducing the cost of hardware
- Low power consumption and cost provides conduit for seamless expansion

Plug-and-Play Architecture

- Improve scalability with minimal infrastructure, saving time and money
- Easy to deploy: Zero-touch configuration makes installation simple
- Proven technology is widely adopted and proven globally
- Limited IT Involvement saves staff time

Security and Redundancy

- End-to-End data encryption: secure data transmission Meter-specific AES-128 encryption with AES-CMAC Over-the-Air Activation
- Ethernet to Cellular options at Hub provide seamless connectivity failover
- Configuration free redundancy by adding Hubs provides redundancy of the network

Specifications

Compliance:	LoRaWAN 1.0.3 specification compliant
Supported bands:	US91 5
Activation:	LoRaWAN Activation by OTAA/ABP
Communication:	LoRa Point-to-Point (P2P) communication
Range:	Long-range - greater than 15 km with optimized antenna
Processor:	ARM Cortex-M4 32-bit
Memory:	256 kbytes flash memory with ECC
RAM:	64 kbytes RAM
Consumption:	Ultra-Low Power Consumption of 1.69 μ A in sleep mode
Supply Voltage:	5 VAC 2.5A input POE - IEEE 80% at
Temp. Range:	-0° C - 70° C