SONICU™
Monitoring Measured

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 scaling

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

- Ethernet to Cell failover options
- Add Secondary hubs anywhere for configuration-free redundancy.

Simple Configuration

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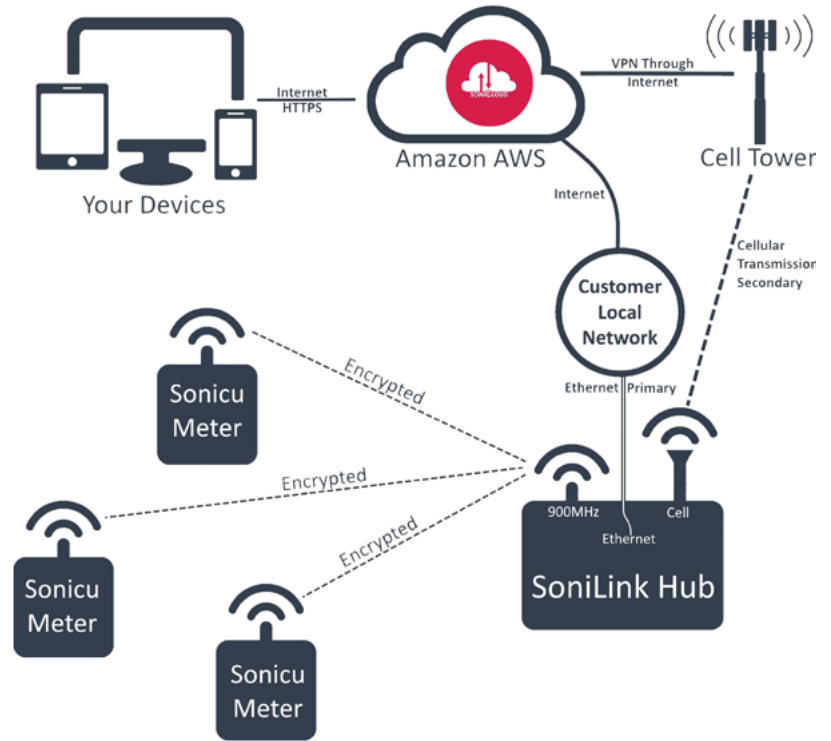
Superior Range and Scalability

- Extended range between sensors and hubs simplifies installation
- SoniLink hubs handle up to 500 sensors, reducing the cost of hardware

Plug-and-Play Architecture

- Improve scalability with minimal infrastructure, saving time and money
- Proven technology is widely adopted and deployed globally
- Limited IT Involvement saves staff time
- Low power consumption and cost provides conduit for seamless expansion

Security

- End-to-End data encryption: secure data transmission Meter-specific AES-128 encryption with AES-CMAC Over-the-Air Activation

Specifications

Based on:	STM32WLE5CCU6
Compliance:	LoRaWAN 1.0.3 specification compliant
Supported bands:	EU433, CN470, IN865, EU868, AU915, US91 5, KR920, RU864, and AS923-1/2/3/4
Activation:	LoRaWAN Activation by OTAA/ABP
Communication:	LoRa Point-to-Point (P2P) communication
Commands:	Easy to use AT Command Set via UART interface
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 μA in sleep mode
Supply Voltage:	2.0 V ~ 3.6 V
Temp. Range:	−40° C ~ 85° C