



## Case Study

# Speaksee

**Silex Provides Connectivity for a Unique Device that Makes Group Conversations Accessible for the Deaf or Hard-of-Hearing**

**silex**  
technology

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## Case Study

### The Challenge

SpeakSee, a start up out of Rotterdam, The Netherlands set out to create a revolutionary device that would make group conversations accessible for deaf or hard-of-hearing individuals. Unlike hearing aids that amplify sound and are not always effective in a group setting, SpeakSee's device consists of a set of portable microphones that transcribe speech to text in real-time through speech recognition, enabling users to follow and engage even when multiple people are taking at the same time.

To make this new device a reality, SpeakSee needed an embedded Wi-Fi solution that provides high-speed, reliable connectivity in a small form factor. The solution needed to be ultra-low power and cost effective enough to embed in each of the microphones and communicate back to a smart phone application in real-time.

### The Solution

Speak-See selected Silex Technology's SX-ULPGN embedded wireless module to provide the connectivity they needed while meeting their power, size, and cost requirements of their initial prototype. This module, designed specifically for mass-market IoT applications, has an internal CPU that can act as a host with the application running from the internal memory and also has the ability to run in hosted mode via an AT interface.

Silex Technology worked closely with Speak-See to provide extensive advisement and support throughout the Wi-Fi module selection, implementation, and design phases of the project.

"We selected Silex as our Wi-Fi partner for this device because of the extensive advice and support Silex has given us, something we didn't receive from other manufacturers. This support was critical for us in the early stages when we were selecting a Wi-Fi solution. During the implementation and design, they supported us further to get the product working as we envisioned and this has greatly helped us to get to a working prototype that we have now."

Marcel van der Ven  

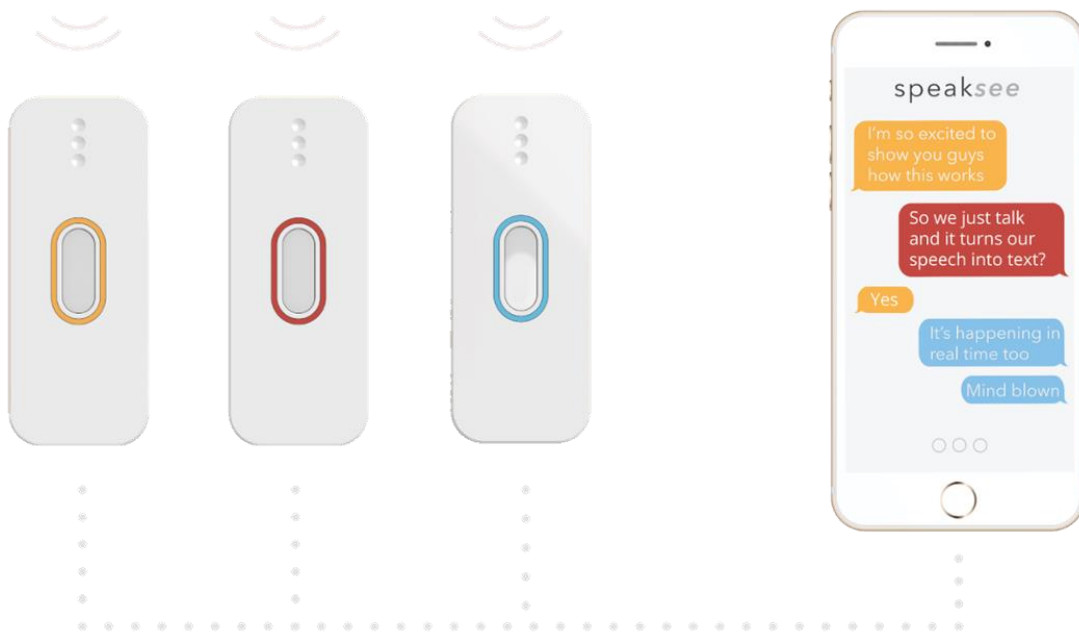
SpeakSee Co-founder & CTO

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### Reliable Wireless Technology Aids Communication

Speak-See selected Silex Technology's SX-ULPGN embedded wireless module to provide the connectivity they needed while meeting their power, size, and cost requirements of their initial prototype. This module, designed specifically for mass-market IoT applications, has an internal CPU that can act as a host with the application running from the internal memory and also has the ability to run in hosted mode via an AT interface.

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### Flexibility and Efficiency for Consumer Embedded Wireless

#### Devices

The SX-ULPGN module, based on QCA4010 radio from Qualcomm, is a feature-rich, intelligent Wi-Fi solution that integrates a full Wi-Fi stack, full networking/security stack, and embedded CPU and memory for on-chip application development. This module can operation in two configurations: as a communication engine to an external MCU or as a complete standalone

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system with the application running directly on the radio.

The SX-ULPGN is ideal for consumer embedded wireless products, like this device from SpeakSee, that need a high level of flexibility and efficiency. The SX-ULPGN module allows OEM's to design Wi-Fi connected products in a cost-effective way.



## Making a Difference

At Silex Technology, our mission is to be difference makers – for our employees, to our customers, and in our communities. This application is one example of how we enable customer success through support, advisement, and innovative products that helps end-users benefit from the advantages that a networked society offers through modern computer technology.

## Learn More

For more information about Silex Technology's Wi-Fi Solutions for consumer devices, visit our [IoT Connectivity Solutions](#) page.

## About SpeakSee

Founded in 2016, SpeakSee is an innovative assistive technology company with a strong sense of purpose: making conversations accessible for everyone. For more information, [Click here](#).

### About Silex Technology

Silex Technology is an embedded network technology company specializing in local area network and wireless (802.11 a/b/g/n) technologies providing software, modules or turnkey products. As the world's leading supplier of print servers, Silex Technology is leveraging its technology and know-how into new applications as well as developing new technologies to meet the expanding need for connectivity for consumers and business users. Silex Technology has regional offices for sales, marketing and development in Japan, U.S., and Germany. Silex Technology is vertically integrated to support the customer from design to production maintaining the high quality standard. For more information, please visit [www.silextechnology.com](http://www.silextechnology.com).

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