



SEMTECH®

Archangel



Archangel Transforms Assisted Living with Smart Sensing Solution

Archangel is using Semtech's AirVantage Smart Sensing solution to revolutionize assisted living, enabling non-invasive, predictive care, enhanced AI-driven insights, and scalable growth with flexible hardware solutions. The flexible solution design enables Archangel to provide customized solutions to meet the diverse needs of its customers.

QUICKFACTS

Company

Archangel
www.archangel.cloud

Customer Profile

Archangel is a cutting-edge platform revolutionizing how data is transformed into action for health, social care, and housing providers. By seamlessly integrating systems and using AI to analyze live data, Archangel empowers service teams to deliver safer, smarter, and more personalized predictive care through its sensor-based, modular Ambient Assisted Living (AAL) solution. This transition from reactive to intelligent and predictive is key to achieving better outcomes and driving efficiencies that benefit both staff and those they support.

Objectives

Archangel needed a partner to manage networks of sensors, and the data they generate, reliably and at scale, freeing them to focus on developing and delivering the essential features in their core platform.

Results

Partnering with Semtech has enabled Archangel to:

- Grow their business by fulfilling core customer needs while Semtech provides reliable management of networked sensors and standardized data delivery as well as the configuration and monitoring of all networked sensor devices.
- Provide accurate, real-time data analysis, with intelligent risk assessment, to enable housing and care professionals to make the transition to proactive, data-driven decisions that avoid incidents and, support healthy homes and independent, dignified living.

Products and Services

- [AirVantage Smart Sensing](#)



“ I am thrilled with Semtech’s Smart Sensing solution - it is precisely what Archangel needs as we spearhead the UK challenge to switch in excess of 1.8 million individuals from analogue reactive pendant solutions to digital ambient monitoring systems. Semtech’s pedigree and comprehensive offering, including cellular connectivity, aligns perfectly with our deployment strategy. ”

Tom Morton,
CEO of Archangel Ltd.

INTRODUCTION

Archangel is a pioneering cloud-based platform transforming how health, social care, and housing providers deliver support through actionable insights and real-time analytics. Designed to integrate seamlessly across fragmented systems, Archangel empowers service providers with a unified view of data to enable smarter responses and better outcomes.

One of Archangel’s standout innovations is its modular Ambient Assisted Living (AAL) platform, purpose-built to tackle the immense challenges faced by today’s care systems. By actively analyzing live data from various sources, Archangel provides intelligent notifications and intervention alarms, allowing service teams to prioritize tasks, improve collaboration, and deliver more personalized, proactive care. The result is healthier homes, independent living, and dignified support that benefits both staff and those they serve.

CHALLENGE

In its quest to deliver “a better way” to support transformation in the care and assisted living space, Archangel faced challenges on multiple levels, beginning with the fundamental task of supporting service providers in a time of aging populations, care staff shortages, and public sector budget pressures.

Existing resource-intensive and reactive “button and box” models were both insufficient and inefficient. Collecting data was hampered by an analog system that was technologically limited and not user-friendly. Many users were reluctant or unable to press buttons when they needed help, and any data that was gathered required manual interpretation. To overcome these obstacles, Archangel was in search of a proactive, efficient, cloud-native solution.



They wanted to use passive sensors to provide live insights – replacing reactive legacy buttons and detectors. The vision was a hybrid human- and AI-driven platform to monitor individual behaviour patterns, detect anomalies, and intervene early – like spotting signs of a UTI before symptoms escalate – but the implementation was complicated.

Faced with a fragmented ecosystem where each sensor had different integration requirements, Archangel was spending more time identifying and integrating sensors than on developing essential features in their core platform. They needed a partner to manage the sensors reliably, and at scale. Semtech's AirVantage Smart Sensing fits the bill.



SOLUTION

With customers deploying small sensor networks across thousands of properties, and a wide number of sensor use-cases, Archangel appreciates Semtech's scalable solution which collects sensor data securely and consistently without requiring vendor lock-in. This means, from Archangel's perspective all sensors look the same, regardless of the vendor or the network they're connected to.

With Smart Sensing simplifying configuration and monitoring – handling sensor deployment, configuration, and data normalization – Archangel can focus on their customer application platform.

And because care and assisted-living needs are ever-evolving, Archangel appreciates Semtech's use-case based approach which means they can simply specify a need – like detecting electricity use, or monitoring enuresis (bedwetting) – and the Semtech team identifies and integrates compatible devices.

“One thing we really love about Smart Sensing is its simple use case-based approach. We only have to come in and specify a need, such as detecting electricity use. Then the Semtech team will suggest compatible sensing devices. Knowing that those devices will be reliable, and the data format and configuration will be standardized, well, that’s a huge relief for us.”



Tom Morton, *CEO of Archangel Ltd.*



BENEFITS

Partnering with Semtech has provided significant benefits for Archangel, including:

- Allowing Archangel to prioritize customer needs by building core features – AI models, risk profiling, response protocols – while Smart Sensing manages the sensors.
- Facilitating the transition from reactive to predictive care by providing housing and care professionals with accurate, real-time data analysis.
- Supporting business growth by allowing flexibility in hardware choice, enabling quick scaling, and freeing company resources to focus on differentiating Archangel in the market.

About Semtech

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

To learn more about Semtech technology, visit us at [Semtech.com](https://www.semtech.com) or follow us on [LinkedIn](#) or [X](#).

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