

Specialist provider of
high performing, robust
and reliable antenna
solutions.

This is Smarteq

Smarteq Wireless is a Swedish specialist provider of high performing, robust and reliable antennas and antenna solutions for Energy, Vehicle and Industry applications. We currently deliver antennas to more than 40 countries world wide.

Our products are designed to meet the highest demands. We are a crucial link of the wireless industry, and our customers include companies at the technical forefront.

The trust the market puts in our offer is not only because of our ability to develop and deliver premium products and cutting-edge technology. It also lies in the company's history, written by inventors and brilliant product engineers.

The company was founded in 1996 and originates from Allgon Applications and Carant. Together we have more than 70 years of experience of developing antenna solutions you can rely on.

Smarteq Wireless AB

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Smarteq is part of Swedish Allgon Group, listed on Nasdaq First North in Stockholm.

A semi-truck is shown from the side, driving on a multi-lane highway. The scene is set during sunset or sunrise, with a bright sun low on the horizon creating a strong lens flare and illuminating the sky with orange and yellow hues. The truck is dark-colored, and its trailer is visible. A decorative graphic of concentric circles and lines is overlaid on the left side of the image, centered around the truck's cab. The text is positioned in the upper right quadrant of the image.

During **2017**
Smarteq delivered
1 million antennas
to **42 countries**

Product Development and R&D

Our products are designed to meet the highest demands in performance and reliability. They are often selected by customers with technical demands where reliability is of high importance. They know that we keep our promises.

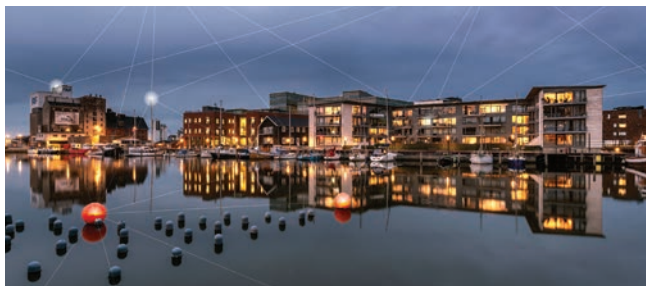
Research

Our product development and R&D resources are based in Stockholm, Sweden. We do research in close cooperation with universities to

shorten the time-to-market for new technologies, such as V2X and 5G. Our guiding principle is to constantly evolve and stay a determined step ahead. As a result, Smarteq is already developing the wireless solutions of tomorrow, today.

Patents

Smarteq has a large number of active patents and we are continuously filing new ones.



DETERMINATION TO STAY AHEAD OF THE COMPETITION

Our products are designed in Sweden by experienced senior engineers

Only high-quality material with low environmental impact is used

Each product design and production process is tested and validated by an extensive quality assurance procedure



Our values

Smarteq is a company with high-performing and qualified employees who are encouraged to use their stellar expertise on behalf of our customers. Our employees are our most valuable assets and the foundation of Smarteq's success.

WE ARE COMMITTED TO:

CLOSE COLLABORATION WITH CUSTOMERS AND PARTNERS

Aiming for long-term relationships, we aim to fully understand our customers' and partners' true needs.

WORK AS ONE TEAM

To support each other across areas of responsibilities. We appreciate honesty, transparency and a collaborative work environment.

ACTING PROFESSIONALLY

Keeping our promises, including keeping deadlines and product quality.

IMPROVE CONTINUOUSLY

To react fast and find solutions to the root cause.

PROACTIVITY

Enabled by clear leadership, clear objectives and empowered employees.

Quality and sustainability commitment

Operating on a global market, it's important to us to conduct business responsibly and in a sustainable way, both socially and economically. We are convinced this contributes to growing our business too.

Smarteq fulfills the highest quality and environmental standards. We are certified according to the automotive standards ISO/TS 16949 (recertification to IATF 16949) and ISO 14001.

Our philosophy and aim is to do things right the first time to ensure high quality and low impact on the environment in our processes, products and organization. Our excellent quality performance is a result of our structured way of working and the robust and reliable design of our products.

We have long experience and extensive knowledge of working with PPAP, APQP, FMEA, MSA, IMDS, SPC, 8D and EDI/Odette.





Energy

Optimizing energy consumption with smart city applications

Smarteq is very active within “Smart Cities”, with antenna solutions for smart metering, EV charging stations, smart lighting and more. Smarteq has supplied millions of antennas for smart metering and charging stations for electrical vehicles and is the market leader in the Nordic countries. Our customers are international industrial companies at the technical forefront such as Aidon, Kamstrup and EON.

Our engineering team knows by experience that reliable antenna solutions with straight forward efficient installations are crucial for the success of our customers’ applications.

We have a large assortment of antennas with different discrete form factors.

For unique customer demands, we can quickly adapt our existing antennas with different cables, connectors and installation configurations.

Most of our antennas can be mounted both indoors and outdoors, and on different materials. They have high IP protection and are designed to operate both on metal and non-conducting materials.





Smart Metering roll out in the Nordics

Challenges

The Nordic countries were early with smart metering, with commencing already in 2006. Smarteq has delivered antennas from the start. There were needs for high volumes of high performing and reliable antennas, preferably vandal proof. A wide range of antennas for different application scenarios such as RF mesh and, concentrator solutions and cellular point to point.

- Fast and easy installation are necessary to minimize total cost
- High IP class requirements
- Discreet form factors
- Designed to operate both on metal and non-conducting materials

Solution

Smarteq has long-term experience from the different customer needs within AMR (Automated Meter Reading) and thus has a large assortment of antennas optimized for smart metering applications.

We also have a proven and efficient global logistics and distribution network for high volume deliveries in markets world-wide. Smarteq fulfills the highest quality and sustainability standards required by this market.

For unique customer demands, our R&D team quickly adapt our standard products, or develop completely new customized solutions.

EXAMPLE PRODUCTS



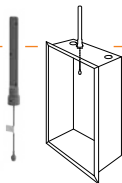
SmartTube



SmartBlade



LP701/702



TRA LTE
Feed through antenna

Vehicle

We have a passion for
the automotive business

Antennas for Automotive (OEM, Tier 1 and Tier 2) have been a core business for Smarteq since the founding of the company. For decades, Smarteq has delivered high performing antennas to customers such as Bentley, Scania, Volvo trucks, Volvo construction equipment, Rottne and Ecolog. Our products are used by cars, trucks, buses, off-road vehicles, system integrators and telematics companies. Our project team has extensive Automotive experience.

One area of expertise is completely concealed, embedded antenna solutions for Automotive.

We know how to fulfill the extremely high demands within Automotive. We have the experience, product development competence, certifications (ISO/TS 16949, ISO 14001) and logistics processes in place to deliver. We are also an active antenna partner in research programs in Sweden related to V2X and 5G, such as ChaseOn at Chalmers University.

KATHREIN

Smarteq also owns the rights to market and sell the Kathrein after market assortment for Automotive.



Picture: Bentley

Concealed and embedded antenna solutions for Bentley

Challenges

Initially, Bentley required a specialist development partner to fulfill their need of high performing antennas for tracking, positioning, infotainment, telephone, satellite radio Sirius/XM (US market).

Due to car design objectives, antennas had to be completely concealed and therefore customized.

Solution

Smarteq has developed antennas for Bentley since 2005, and has taken an active part as development partner to optimize connectivity performance and cost. This includes implementing the antennas in for example dashboard, boot lid, inner lining roof top and car windows.

Smarteq develops and delivers concealed antennas in 2G/3G/4G 698-960/1710-2690MHz) combined with GNSS and Sirius/XM antennas.

EXAMPLE PRODUCTS



Aldisc



LPCA - MIMO



MiniWing

Industry

A crucial link in Industrial Internet of Things

With our extensive antenna expertise, we can support our customers and the industry in finding the optimum connectivity solutions.

We have a broad product range of high performing multi-functional antennas, that can be used for many different applications.

We also customize our products, or design completely new antennas for customers with very specific demands.



Intelligent lightning

Challenges

TYRI is a leading provider of lightning solutions for off-road vehicles. Tyri saw a market opportunity to integrate intelligence in their lightning systems for off-road vehicles. For this, Tyri required an antenna development partner and technical expertise for antenna and BLE electronics design. Experience from developing products that can withstand the toughest working environments was one of the important criteria for Tyri to choose Smarteq as partner.



Solution

Smarteq developed an antenna module, and performed the mechanical design of the BLW housing. RF simulations enabled early concept freeze and verification according to radio propagation requirements.

We also performed radio frequency measurements and verification of radiation pattern, 3D, polarization and efficiency measurements.

BLE electronic design and testing was performed together with Smarteq's sister company WSI.

As a result, the new lightning system communicates wirelessly via new Bluetooth technology (BLE), and is controlled both automatically by light and glare sensors, and also manually by remote control. The BLE module functionality includes for example remote on/off, dimming of lights remotely and anti-theft.

EXAMPLE PRODUCTS



Smarteq InSide
Embedded antenna



SmartDisc



SmartBlade

SMARTEQ™
■ ■ ■ ■ W I R E L E S S

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