Qnovo™

Reimagining the battery experience.
With software only.

Trusted on 100 million smartphones worldwide

CORPORATE OVERVIEW

Qnovo supplies the most advanced battery management software to the world's leading smartphone, automotive and energy storage manufacturers. By augmenting battery chemistry with intelligent algorithms and machine learning, Qnovo delivers a vastly enhanced user experience with uncompromised safety.

Our comprehensive solutions combines intelligent adaptive charging algorithms with advanced battery health and safety features. Qnovo allows you to experience cutting-edge features including super fast charging, more available battery capacity, longer lifespan and an absolute peace of mind in battery health and safety. Qnovo products set a new standard for batteries so you can expect and experience the best from your battery.

UPGRADING YOUR EXPERIENCE FOR 5G

5G smartphones demand up to 50% more power over LTE. Yet manufacturers must provide users with an all-day battery and a two-year lifespan. Improving battery materials is not sufficient to safely meet these needs. Qnovo's intelligent battery management software extends the charge available to the user and keeps the battery healthy. Upgrade to 5G and upgrade your battery experience too.

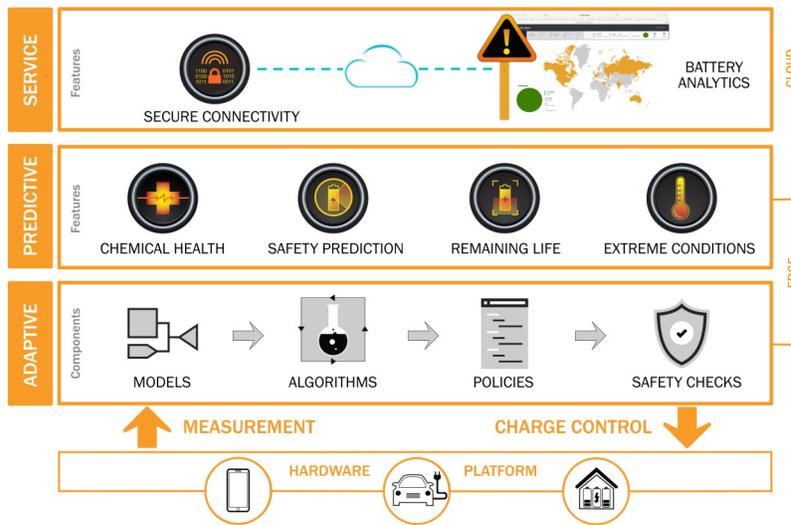## AN EXPERIENCE ELECTRIC VEHICLE DRIVERS DEMAND

Extended driving range and superfast charging are important for electric vehicles. Auto manufacturers recognize that getting there will require intelligent battery management systems. Qnovo's proven software solutions enable more available charge for a longer range, and superfast charging that does not damage the battery. That's a driving experience that ought to be standard for all electric vehicles.

SAFETY ALWAYS. PEACE OF MIND.

Battery safety incidents have unfortunately been too frequent. This must change. We have invested many years to make battery safety far better. Our solutions predictively find hazardous batteries long before they risk becoming a safety problem. Qnovo's battery management software improves safety by 100X. That's a peace of mind that protects your brand.

QNOVO™

BATTERY MANAGEMENT SOFTWARE STACK

Adaptive charging algorithms combine requisite diagnostics with learning chemical models to maximize battery life and longevity. Qnovo's technology analyzes the battery's internal chemical processes. By studying the state of battery health and anticipating future aging, it dynamically adjusts the rate and degree of charging to meet some of the most challenging requirements such as those demanded by 5G smartphones.

The second layer performs supervisory and predictive functions based on its predictive battery health and safety algorithms. It computes metrics describing true chemical battery state-of-health (SoH) and estimating remaining cycle life. A companion safety indicator provides an early warning of present battery faults that may lead to an explosion or fire.

Both first and second layers operate and store their encrypted data on the host device to maintain the privacy of end users. They are compatible with numerous hardware platforms including ARM-based architectures, as well as multiple host operating systems.

The third layer is a battery analytics service in the cloud. It securely collects health and safety information from the predictive layer for each individual battery, and aggregates the anonymized data across the large battery population in the field. This cloud service provides OEMs, network operators and fleet managers with an instantaneous view of batteries in the field enabling them to identify and remove hazardous batteries from circulation before they pose a catastrophic risk.

AWARD-WINNING TECHNOLOGY & SOLUTIONS

GARTNER COOL VENDOR
Consumer devices
April 2015

BUSINESS INTELLIGENCE
Finalist
October 2015

ELECTRONIC PRODUCTS
Product of the year
January 2016

GLOBAL MOBILE AWARDS
Finalist
MWC 2020
February 2020

YEAR FOUNDED
2010

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MARKETS SERVED
Consumer electronics
Electrified vehicles
Energy storage systems

IP PORTFOLIO
34 issued patents

BATTERY TEST CYCLES
> 2,000,000

DEVICES SHIPPED
100,000,000

SAFETY RECORD
Zero failures in the field

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