



COMODULE press kit 2018

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Digitalizing mobility.

IOT solutions for
suppliers & manufacturers | fleet & sharing operators



COMODULE grows product portfolio, markets and the company

- Eurobike 2018 from 08.07. – 10.07.: visit COMODULE at hall A1 booth no. 606
- New product line: COMODULE lite connects bikes **with the rider's phone**
- COMODULE Cloud: more informative, faster and built for any device
- **Success Stories: some of the industry's most important players rely on COMODULE**

Berlin / Tallinn, July 2018. Eurobike visitors can expect some fundamental innovations from connectivity expert COMODULE in its fourth year of exhibiting at the show.

COMODULE lite connects bikes with the rider's phone via Bluetooth

The concept of COMODULE new launched product line *COMODULE lite* is as simple as it can be. A hardware device attached to the drive system communicates with *COMODULE App* via Bluetooth.

What makes *COMODULE lite* extraordinary is that – given the permission of the rider (following Generic Data Protection Regulation GDPR) – autonomous performance data from the bike can also be transmitted to *COMODULE Cloud* which helps manufacturer to enhance drive system development even without autonomous connectivity solutions with telecom chip in the bike.

Bike manufacturers can choose between two versions:

- 1) *COMODULE Access* – a small electronic chip that works with open ebike drive systems
- 2) *COMODULE Diamond* which is more than 'just a bike display'. Regular bike cockpit features like bike

information or changing assist levels are enhanced by its digital companion, the *COMODULE App*. It allows the rider for example to individualize his power assist or to start a navigation on the *Diamond's* screen.

Relaunch of COMODULE Cloud

In its fourth year of operations *COMODULE Cloud* has been extensively rebuilt: The new backend allows manufacturers and operators to take control of more than hundred-thousand vehicles with quick response rates. The new frontend provides more information in the desk board and the responsive design makes it more practical for different user groups as it adapts to all kind of devices. For the integration into existing customer system architecture *COMODULE Cloud* now also provides an application programming interface (API).

COMODULE Success Stories

Thanks to ongoing positive company development leading bike industry players and operators of sharing mobility schemes rely on *COMODULE* technology.

Among others *COMODULE* delivers products to suppliers like BMZ, Fazua or maxon drivesystem and manufacturer like Ampler, Coboc, or Gazelle (PON.bike).

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COMODULE company profile

Berlin / Tallinn, July 2018. Empowering the light electric vehicle (LEV) revolution with smart technology **has been the goal of COMODULE since “day one”**. In its fifth year, the ISO certified tech company has **become the global leader** for bicycle and scooter connectivity solutions. By providing tailored internet of things (IoT) technology, the Estonian-German company offers platform solutions for suppliers, bike manufacturers, fleet managers and sharing operators.

Founded in 2014, the team of 5 original founders has grown to 25 employees located in the R&D centre in Tallinn, Estonia and the business development office in Berlin, Germany. Most of the employees are engineers and experts of connectivity solutions whereas CEO and tech-entrepreneur Kristjan Maruste has been announced by the Forbes Magazine to be one of the “future leaders of the world” (“30 under 30” awards) in 2016.

COMODULE digitalises bike and e-scooter industry by providing B2B IoT-technology. The target groups are industry partners like vehicle manufacturers or component suppliers on the one hand and operators of sharing mobility applications like sharing schemes or fleets on the other. COMODULE ecosystem consists of communication units that are connected to the vehicle, smartphone applications for end-users and online data analytics platforms. The technology is delivered according to the customer’s branding (white-labelled) to smoothly fit into their product portfolio.

COMODULE Industry Solutions promises additional value for all parties of the distribution chain, COMODULE Sharing Mobility Solutions enables efficient operations and tailored network integrations.

As a consequence of COMODULE internal data protection and data security guidelines COMODULE also follows European Generic Data Protection Regulation (GDPR) since May 2018.

Despite its short history COMODULE is a well-established and innovative supplier in the market. E-Bike component suppliers like ASi, Bafang, BMZ, Brose, Fazua or maxon drive and bike manufacturer like Ampler, Coboc, Gazelle (PON.bike) or Rotwild rely on COMODULE technology.

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Introducing COMODULE *lite*

Berlin / Tallinn, July 2018. With COMODULE *lite* connectivity expert COMODULE launches a new product line that is technically based on a Bluetooth interface between the bikes and COMODULE App. Two hardware options simplify vehicle and component manufacturers digitalising their product range.

COMODULE expands product portfolio with its new product line called COMODULE *lite*. *Lite* can be considered as the “little brother” of COMODULE *full* where connectivity is always provided by a telecom sim chip on the hardware. In contrast to *full*, COMODULE *lite* is connecting vehicles with the riders’ smartphones and uses the phone’s network for new product features. The result is a slim product line that provides value from connectivity to manufacturer and rider without extra costs for telecom services. Target groups are bike manufacturers that are looking for an efficient way to enhance their product experience by offering connected products and benefiting from new communication channels. COMODULE CEO Kristjan Maruste says about this: “We have learned from the market that GSM-GPS connectivity solutions that we offer in our product line COMODULE *full* are sometimes too sophisticated for companies who just start digitalizing their products as they influence the business model of many manufacturers by recurring cost and revenue streams on one product. Therefore *lite* provides a slim platform based on two plug-and-play hardware devices for many e-bike systems.”

Software components of COMODULE *lite* are

- COMODULE *Cloud*: a browser-based data and communication centre and
- COMODULE *App*: a smartphone application that is flavoured according to the customer’s brand.

Lite’s hardware range to connect with COMODULE App consists of two options:

1. COMODULE *Access*: an electronic unit that is integrated into the e-bike system or
2. COMODULE *Diamond*: a display for the handlebar.

Both connect phone and bike in the same way whereas *Diamond* provides features beyond regular bike displays. Besides indicating riding information or changing assist levels it allows the rider for example to start navigation on the *Diamond*’s when connected to COMODULE App.

What is important for manufacturer is that although there is no sim chip equipped to the hardware devices industry partners can still benefit from vehicle performance data for service or future product development. Given the permission of the rider COMODULE App will automatically push vehicle information to *Cloud* once the rider connects his phone to the bike. That helps manufacturers to provide a better product service and better products in future.

COMODULE *lite* will be provided by system providers like BMZ Drive Systems or maxon bikedrive and e-bike manufacturers like Ampler or Rotwild.

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COMODULE success stories 2018

Berlin / Tallinn, July 2018. Despite its short company history of four years many industry partners rely on COMODULE technology in order digitalise their product portfolio. A few examples of COMODULE target markets industry solutions and sharing mobility networks are listed in following.

e-Bike System Manufacturers

BMZ

BMZ is a leading European and global player for battery system solutions. With Connect C BMZ provides a plug-and-play connectivity solution for all BMZ e-Bike Systems which is based on COMODULE ecosystem. The given solution enables manufacturer to offer e-bikes including BMZ smartphone application which controls bike performance and navigation features.

FAZUA

Multiple award winning e-bike system newcomer Fazua equips all new systems with COMODULE's standard solution already from production. Hence, all bike manufacturers which are using Fazua system, can access COMODULE platform: white-labelled smartphone application and data access from cloud platform. Moreover, there will be Fazua app released very soon.

e-Bike Manufacturers

GAZELLE

Gazelle is the largest and most famous bicycle manufacturer in Netherlands. Gazelle has launched its first connected bikes which are equipped with COMODULE's Internet of Things (IoT) module. This enables to detect the bicycle GPS location if stolen and in cooperation with an insurance company, stolen bicycles will be traced and if found then owner will get his bike back or it will be replaced

with a new one. Moreover, it will support various other connected propositions, like performing fleet management and unlocking consumer relevant internet features.

AMPLER

Ampler offers lightweight & clean-looking electric urban bicycles directly to customers. Since bicycles are connected, they are able to stay in contact with users via *COMODULE Cloud*. *COMODULE App* drives customer value as it enables users to configure electric assist, receive software updates to bike's electronics and navigate with built-in maps.

ROTWILD

German high-end performance bike manufacturer ROTWILD will equip their 2019 bike range with COMODULE technology. Users benefit from a seamless connection to the bike via app in order to individualize their system performance and or navigate to the next single trail.

Sharing Mobility Operators

GoVolt

GoVolt is an innovative electric scooter-sharing startup based in Milan, Italy. The company's aim is to provide a premium service through a lean customer driven platform and shall be enabled by partnerships with COMODULE as the leading fleet telematics provider in the bike & scooter industry and the manufacturer of Italy's most technologically advanced electric scooter. GoVolt is planning to launch a service of scooter sharing vehicles in Milan during this summer of 2018 using COMODULE Master hardware device and COMODULE Cloud and App for their operations.