

ebikemotion®

iWoc® ONE

One Button & full e-bike control

What is your customer target for e-bike? Do you need a computer with detailed information or just need information about battery and motor power level? Are you thinking to create an smart city e-bike with urban concept or perhaps you are involved in a e-performance bike?

We have solution for all your ideas in ebikemotion® with our iWoc® Remote family. Sometimes the simplest solution takes advance over the rest, but that depends of your e-bike concept. The iWoc® ONE is the simplest, small and quick smart way to control your e-bike. Our solution is the combination of **JUST ONE BOTTON (iButton) and one Bluetooth® (iModule)**. We can control ON/OFF and the process of changing between the power levels, call to voice commands, etc. To inform about e-bike status we use ONE simple LED and ONE simple BUTTON.



Just
**ONE
BUTTON**
for all

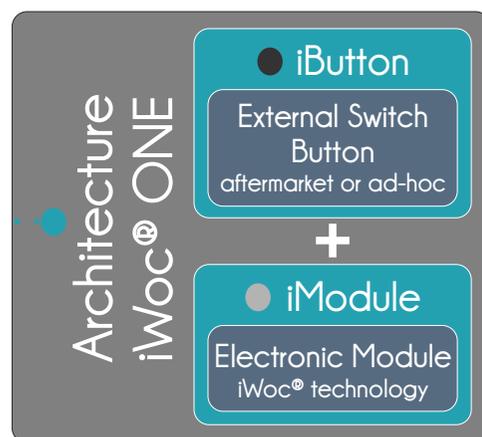
Target Applications:

Control electric bicycles based in CAN BUS or SERIAL. Specially for:

- . Smart City e-bikes
- . Smart e-MTB
- . e-performance
- . e-urban concept

Connection by Bluetooth® to APPs

On/Off
e-bike Status
notification
Motor Power Control
Bluetooth®



ebikemotion® iWoc® ONE is the best solution to create simple e-bikes in combination with our Smart Motor Controller, adding Bluetooth® communication and full e-bike control by ONE button

By the point of view of look & feel, iWoc® ONE is just a simple button added to the e-bike. It is only necessary to include a switch button with or without LED. The external button is connected directly to the electronic of iWoc® ONE (small PCB) that could be placed in any place of frame, battery and even inside the Smart Motor Controller. iWoc® ONE is connected to the Smart Motor Controller bus line like other HMI part.

iWoc® ONE is the best solution for urban concept e-bikes that wants to offer a reliable and comfortable smart control for a new generation or urban brilliant mind people. If it is used in combination with our APP, user's smartphone will turns into the display of the e-bike controlling also the APP by the iWoc® ONE because it also includes Bluetooth®.

LED light is used to notify if the e-bike is ON/OFF and is supported also blinking mode to inform to the user about power assist level, errors, etc. iModule also support buttons with RGB LED light to inform about the battery charge and e-bike status by different color combinations.

EN 15194
DIN EN ISO 13849
According to Directive 2006/42/EG

Made with Automotive
Quality Standards

Nagares SA one of the most important Automotive Electronic Manufacturers of Spain and the R+D in GND (Valencia) is the responsible of the design, production and quality management of the ebikemotion® iWoc®.



HEADQUARTERS

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RESEARCH CENTERS

BISITE R+D Group
(University of Salamanca)

GND (NAGARES)
(Valencia - Spain)

STAGEMOTION SL
(Palencia - Spain)

PRODUCTION CENTER

NAGARES S.A.
(Motilla del Palancar - Spain)

GRUPELEC (NAGARES)
(Valladolid - Spain)

e-bike Remote Control

Product Features and Specifications

Power supply compatible 5 to 6V (check for more Volt.)
 Wireless Communication (Bluetooth® BLE)
 Number of Programmable buttons (1)
 1 Context and Status LED Light (supported RGB)
 Available hardware versions (Bus communication):
 - CAN BUS compatible (High speed CAN) with direct connection to CAN BUS Motor Controllers supported (Ex. ebikemotion® Smart Motor Controller)
 6 pin wire (2 BUS, 2 Power, 2 special signals)
 EN 15194 - DIN EN ISO 13849 - According to Directive 2006/42/EG

Adaptive design. It is possible to use different available switch buttons (aluminium, plastic, etc.)
 Waterproof construction Ip67 for the iWoc® ONE Bluetooth® module
 Customizable position (Frame, Battery, Controller)
 Auto pairing and secure communication
 Type of connection (depending of project and manufacturer. Standard by HIGO Micro B 6 Pin)
 Support changes between different MAPs or Motor power assist levels depending of the configuration of the Smart Motor Controller.

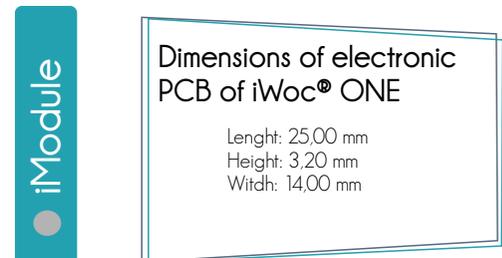
iWoc® ONE i-Button is the only visible part in the e-bike. It could be any switch button, ready to use

iWoc® ONE i-Module is a little PCB that includes Bluetooth® and the electronic to control the e-bike



example of i-Button with plastic holder and USB port integration

example of different aftermarket i-buttons



Dimensions of electronic PCB of iWoc® ONE

Length: 25,00 mm
 Height: 3,20 mm
 Width: 14,00 mm

Designed & Manufactured in Spain (EU)

The remote i-Button of iWoc® ONE could be placed in different positions of the e-bike depending of design. You can integrate your own bracket

