



OTOMMO®

OPTIMIZED OFFICE AUTOMATION

OTOMO is a system designed to optimize comfort and energy saving in office buildings.

It works by **DETECTING THE PRESENCE OF A USER IN AN ENVIRONMENT** and consequently managing lights, energy saving, environmental parameters.

OTOMO is an innovative system designed to optimize a single target: the office.

OTOMO stands out in the market with a professional proposal: easy to install, scalable and affordable, it requires minimum programming skills for its setup, providing a new relationship between simplicity and efficiency.



OTOMO

OTOMO®

is a network of bluetooth devices born to manage optimization, energy saving and office control through smartphone and mobile devices.

EFFICIENT

Fast installation, reliable products. No logic to be setup, we thought of everything for you.



TECHNOLOGY ENABLED

Internet of Things, Domotics, Savings, Control, Company management. The added value, finally.



PROFESSIONAL

Driven from wide experience in building automation, designed from specialists for professionals.



COMPREHENSIVE

Everything you need, no hitches & glitches.

what it controls



LIGHTING / CONSTANT DIMMING



BLINDS/SHADES



GATES



SHUTTERS

LOCAL OR REMOTE MANAGEMENT

AUTOMATIC AND/OR PRESENCE-DEPENDENT MANAGEMENT

- lux metering
- control and constant brightness dimming through lux meters installed on the work table / ceiling
- energy savings thanks to shading control
- activation of “favorite” settings for single user / environment
- automatic zones shutdown



OTOMO[®] is APP



Temperature setting (SetPoint)
towards KNX network



KNX



Each automated function can be immediately changed, switching to manual control using the APP [iOs or Android] which can **DISPLAY**:



room brightness



and **CONTROL**

lights,

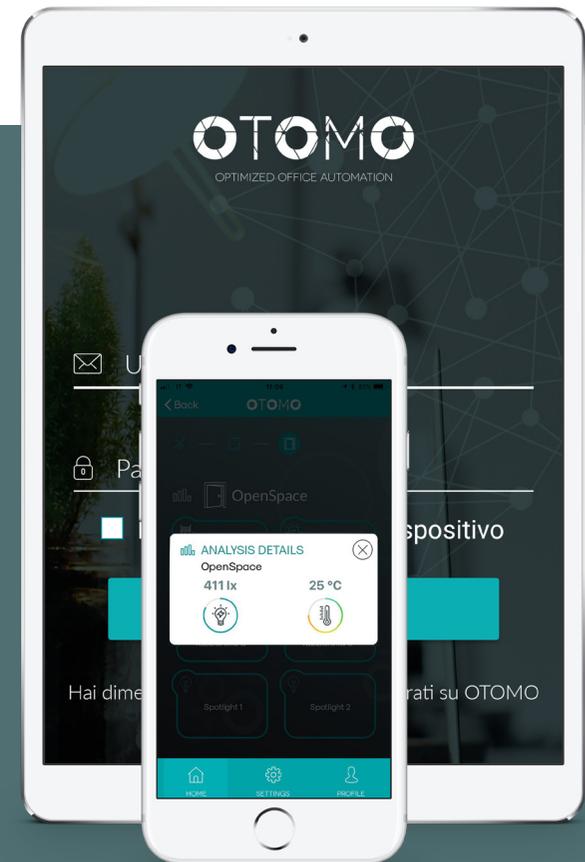


blinds,

shades,



gates.





● **PRESENCE-DEPENDENT MANAGEMENT**

● **LIGHTING CONTROL**

- automatic switching of lighting devices
- automatic control of constant brightness in a room
- manual control of brightness and color temperature of lighting fixtures

● **CONTROL OF BLINDS, SHADES AND GATES**

- automatic and manual position control
- remote opening of gates

● **TEMPERATURE SETPOINT CONTROL TOWARDS KNX NETWORK**



energy saving

OTOMO is compliant with the Efficiency Class A "High Energy Performance" of the European standard EN 15232.

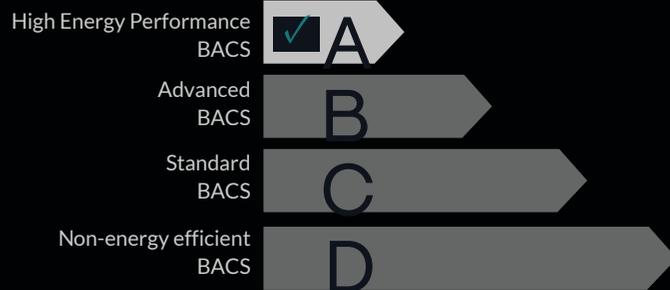
OTOMO ensures savings to the office of

✓ up to **33%** of lighting energy performance*

✓ up to **41%** of heating and cooling energy performance*

compared to office settings with traditional systems, without any automation control system (**D class** according to EN 15232).

* BACS efficiency factors



BACS - Building Automation and Control System

Sources:

- norm EN 15232: "Energy performance of buildings - Impact of Building Automation, Controls and Building Management"
- Lighting Controls in commercial buildings. Williams A., 2012. Leukos.
- Politecnico di Milano - Laboratorio Luce - Dipartimento di Design: "Energy savings performance improvements with OTOMO installed compared to settings with traditional systems, without OTOMO" 2019 Prof. Maurizio Rossi

OTOMO is integrated with KNX® & ModBus®



The two-way communication between the **KNX bus** and the OTOMO Bluetooth® mesh allows to introduce in KNX installations the advantages of the typical functions of an OTOMO system such as the **PRESENCE DETECTION – via Mobile App and Beacon** – of a user in an environment or the opportunity to transfer information, commands, states between one system and the other.

Modbus



The two-way communication between **Modbus®** and the OTOMO Bluetooth mesh network acts as a link between the OTOMO mesh network and the **OTOMO Cloud**. Communication with the Cloud allows **REMOTE CONTROL** of the system and the collection of **NETWORK STATISTICS** directly in the OTOMO App mobile application. The exchange of information between Modbus and the OTOMO mesh network allows also to supervise an OTOMO installation by a **Modbus® supervisor** and to send commands to OTOMO to control the various devices.



JACKIE_IoT_ENZO PANZERI 2017

Extreme linear and simple design in a high technical constructive concept. Jackie's revolutionary innovation is its structure, characterized by extendable arms and a double junction mechanism that allows multiple head orientations enlightening the desired points.

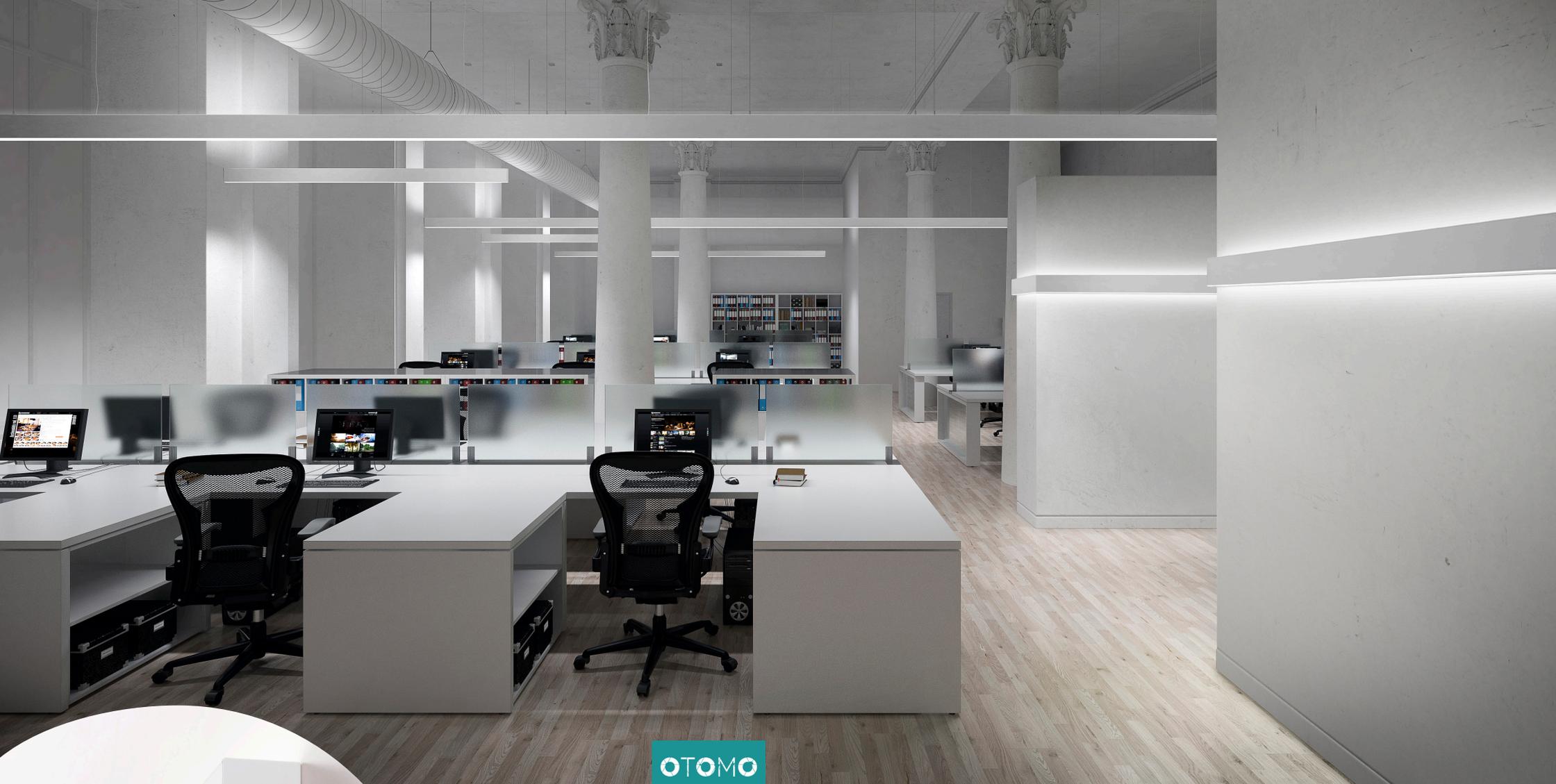
Jackie is a family of LED lamps in die-cast aluminum alloy, available as table lamp -with base or clamp-, floor lamp, wall/ ceiling spotlight.



light intensity sensor

temperature sensor

The use of a table lamp embedded sensor is assuring *extremely accurate lux metering*, even in very clear spaces



OTOMO
ENABLED

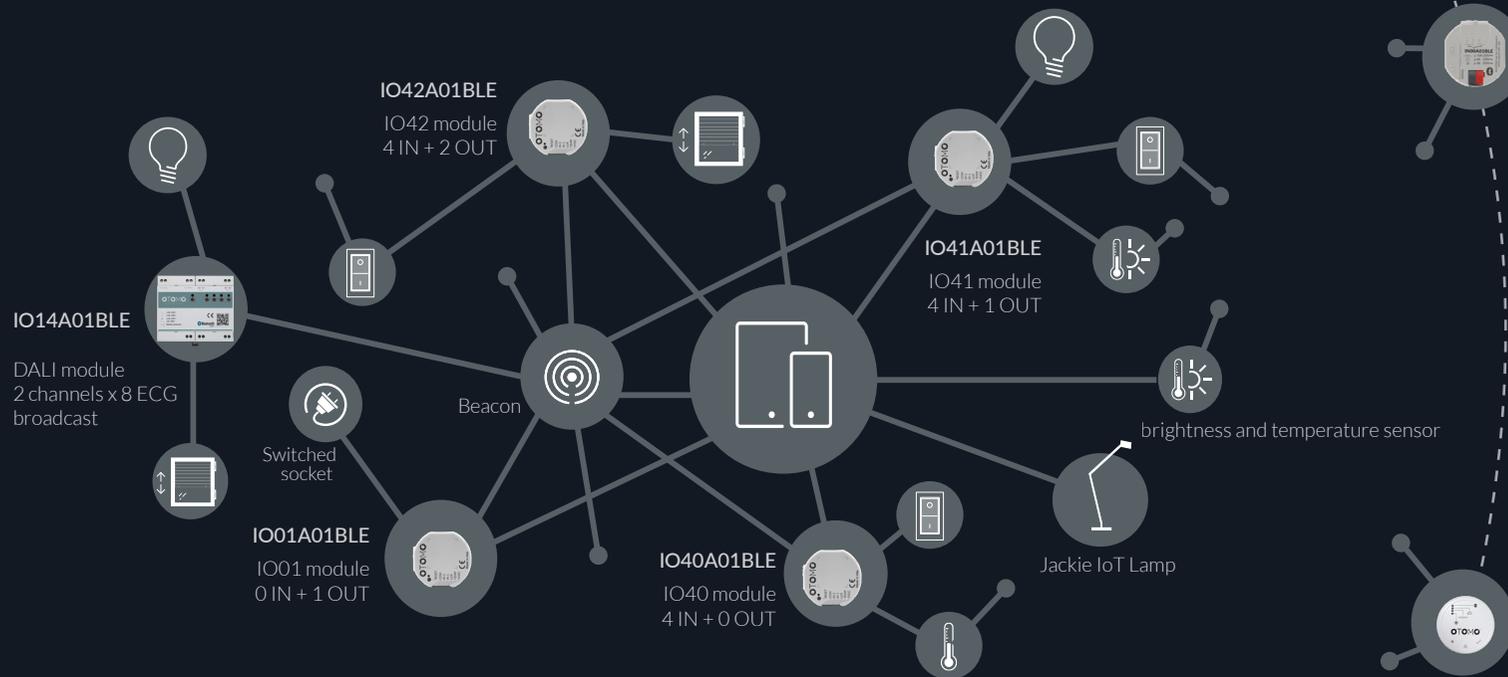
GIANO_IOT PANZERI

Modular extruded aluminum wall and suspension system. Light source made of LED module with direct and indirect light and separate switching ON/OFF or DALI/PUSH DIM integrated drivers. Finish in polyacrylic paint in white or black and smooth front finish of the profile.

Ideal for offices, corridors, stairways.



OTOMO[®] system components



All devices can be easily installed using the mobile App through direct import of Qrcode parameters and automatic device recognition





IO14A01BLE

DALI Module
2 channels x 8 ECG Broadcast - Integrated Circadian Cycle - Power supply 230Vac

The brightness of the DALI lamps is driven by OTOMO SENSOR connected to the IO42A01BLE device or from the brightness sensor integrated in the Jackie IoT lamp.

Inputs

1 digital INPUT (dry contact)
e.g. to connect a conventional presence sensor

Outputs

2 OUTs - 16A relays
to drive 1 blind / 2 on-off lights / generic loads
2 channels x 8 ECG Broadcast



IO42A01BLE

IO42 module (4 IN + 2 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 2 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights/ loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)

Outputs

2 OUTs - 10A RELAYS
to drive 1 blind / 2 on-off lights / generic loads



IO41A01BLE

IO41 module (4 IN + 1 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 1 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights/ loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)

Outputs

1 OUT - 10A RELAY
to drive 1 on-off light / generic load



IO40A01BLE

IO40 module (4 IN + 0 OUT)
Power supply 230Vac

2 Digital INPUTs can be configured as: 2 single channels (e.g. On-Off command, excluding light dimming) directly connected to 2 lights/ loads or 1 coupled channel driving 1 remotely installed blind / load using a 2 way switch

Inputs

2 digital INPUTS / 2 analog INPUTS for BT01A01OTO SENSOR (temperature and brightness)

Outputs



BT01A01OTO SENSOR

Brightness & Temperature sensor

OTOMO brightness and temperature sensor provides the measurement of temperature and illuminance (lux) that are visible on OTOMO APP.

OTOMO sensor in an accessory of IO42A01BLE and is used to manage and dimming DALI lamps.



PD02X01CON PRESENCE SENSOR

Presence & light sensor 2 channels Inwall mounting

is a ceiling flush mount PIR detector. The load will be switched on automatically when the movement is detected and the ambient light level is below the Lux setting value. Until there is no movement detected and the pre-set delay time has been expired, load will be switched off automatically.



IN00A01BLE

OTOMO-KNX Gateway

Commands forwarding from OTOMO to the KNX bus and vice versa, activating - for example - KNX scenarios triggered by the presence / absence of a user detected by OTOMO.

Transfer of brightness and temperature information detected by OTOMO devices, for example Jackie_IoT, to the KNX network avoiding the installation of new sensors.

Extension of complex functions and scenarios (e.g. weekly or monthly schedules) in the OTOMO network thanks to the integration of devices already installed in the KNX system.

IN00C01BLE

OTOMO-IP Gateway

System remote control via cloud: ability to control the devices even if not in the detectable Bluetooth® area

Display of analytics on a web portal directly on the mobile device (e.g. the switch-on time of a specific light point, average temperatures).

Interfacing of the OTOMO system with the Modbus / TCP world.





BE01AXXACC BEACON

Allows the recognition of the presence of a user in an environment in place/in lack of mobile devices.
Performance and low power, an available time for 5 years or more

01 white 02 black
other colors on request



OTOMO APP



User + Manager APP

OTOMO App is the application for Android & iOS devices that allows you to easily and intuitively control your office with OTOMO.

Thanks to OTOMO App you can control and manage the status of lights, blinds, curtains and gates in manual mode or according to the recognition of the presence of a user in an environment. You can also display the temperature and the lux level in an environment. With OTOMO App, you control your office with an automation experience tailored to your needs.



Eelectron S.p.A. is an Italian company that manufactures hardware and software of electronic devices compliant with **worldwide KNX standards**.

For more than 20 years Eelectron is, in the national scene, a role model of technological leadership in the application of the international protocol for home and building automation, KNX.

Eelectron, with its branch offices in Belgium, China, Dubai and Hong Kong, distributes its systems **in over 75 countries worldwide**.



HVAC



BUILDING CONTROL



LIGHTING



REMOTE CONTROL



ENERGY MANAGEMENT



BLINDS & SHADES

OTOMO®

OPTIMIZED OFFICE AUTOMATION

otomo.cloud

Eelectron SpA

Via Claudio Monteverdi, 6
20025 Legnano (MI) Italia
Tel. +39 0331 560802
Fax +39 0331 564826
info@eelectron.com

