



“IoT H” SOLUTIONS

Reliable connections for advanced IoT ecosystems





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that can be integrated into your
connection project on ioth.it

More functional and intelligent connections

We support device manufacturers, system integrators and installers through special “IoT ready” solutions, enabling the realisation of IoT projects with a fast, simple and secure approach.



Our strengths



Reliability

We have been designing and manufacturing plastic electrical connection solutions for over 30 years and have developed a workflow geared towards continuous improvement to ensure high-performance products.



Immediacy

We work with a short supply chain and have implemented a management process that allows us to respond quickly to all requests, satisfying even the most urgent deliveries in a short time.



Innovation

We innovate and experiment with new ideas: within our "Techno Innovation Lab" we design innovative solutions and support customers in the development of tailor-made products, responding to the ever-changing needs in the field of connections.

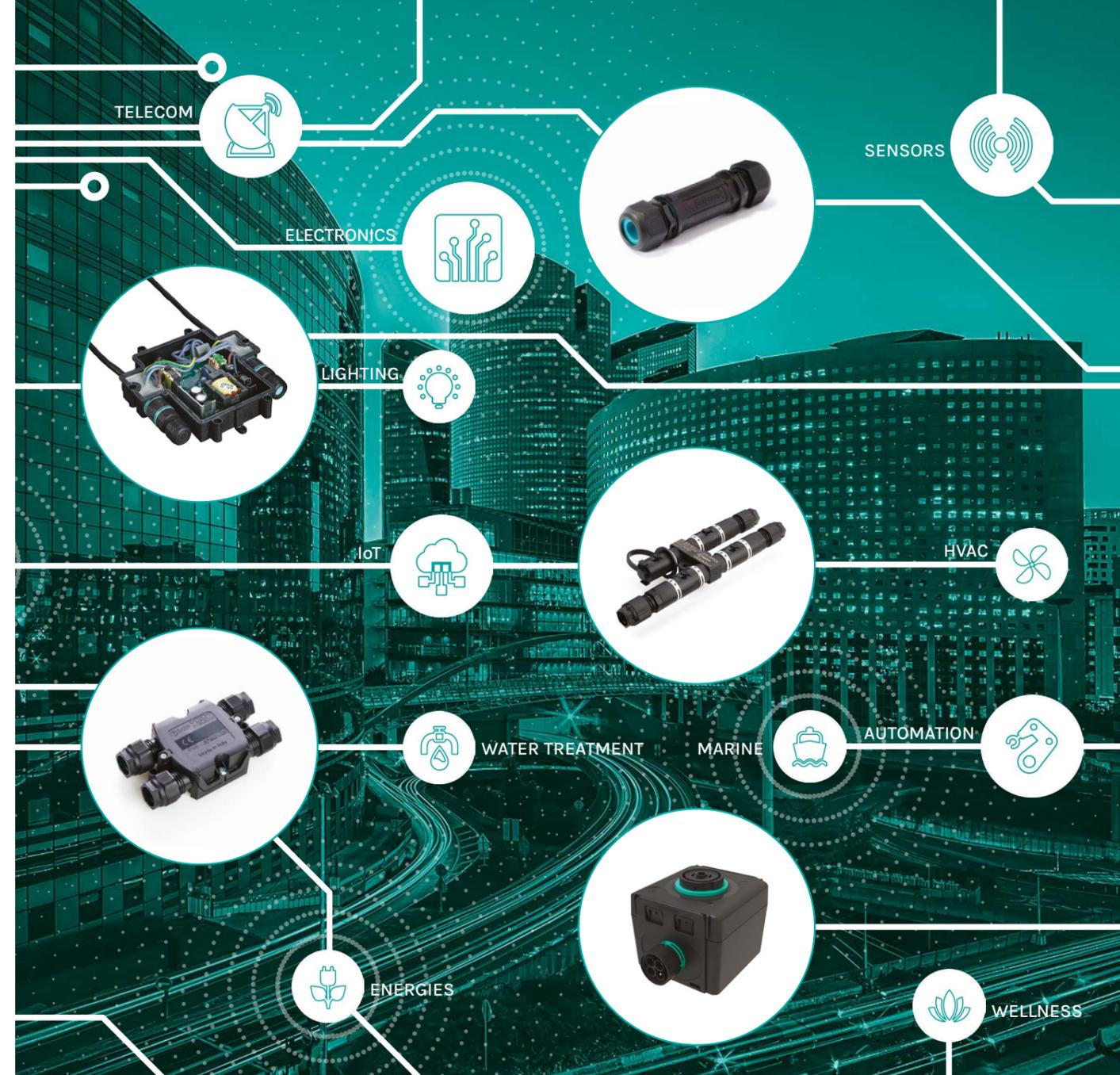
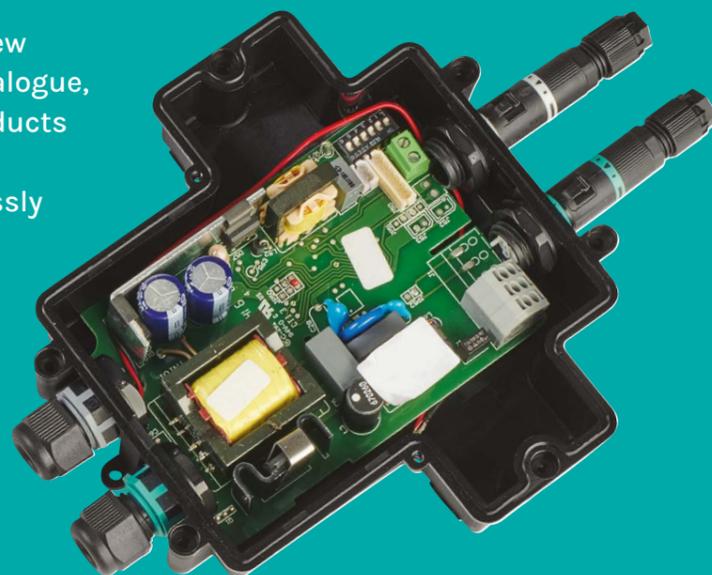


Design

We are proud of our Made in Italy production (Certified) and pay the utmost attention to the aesthetics of our products to create practical, compact solutions with elegant shapes and attention to detail.

We develop your connection idea

In addition to investing in the research of new modular solutions to be included in our catalogue, we develop connectors and customised products that meet the mechatronic requirements of individual customers and integrate seamlessly into the devices for which they were designed. For the development of custom products, we work as a team with the customer right from the preliminary design analysis, follow 3D prototyping, and take care of both small and large batch production.



Follow and adapt to market changes

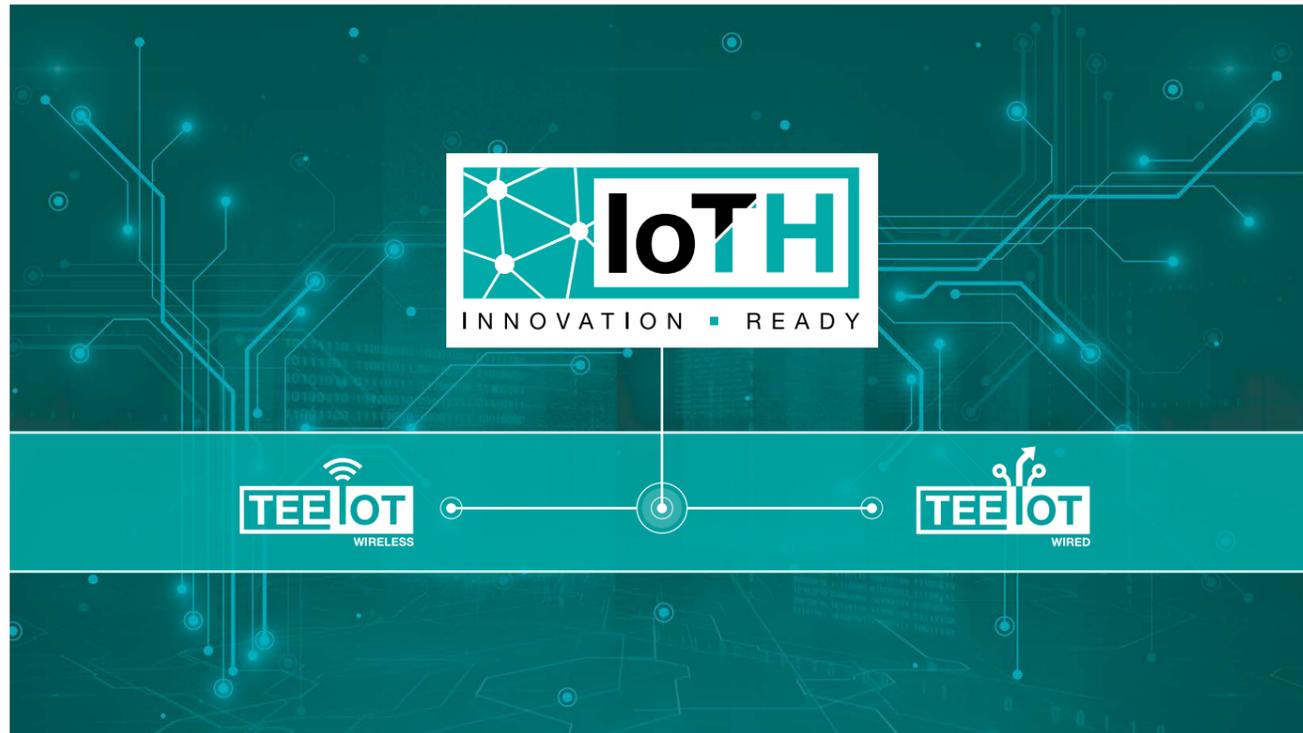
Our team of connector specialists researches new solutions to meet customers' needs, and with the electronic industry, sensors and IoT industry increasingly widespread in our life, we are committed to helping solve the compatibility problems that device manufacturers face.

Thanks to our experience in the connection sector, we have created the IoT platform, a range of products and services based on the integration of IoT systems in our electrical interconnection solutions, to support our customers in creating ever smarter and more efficient projects.

An “open platform” to support your projects

In the IoT landscape, the biggest challenge is the compatibility of connection between the different devices and the technological and plant engineering requirements due to the fact that the systems in use speak different languages.

At Techno we have solved this problem by developing the innovative IoT platform where we configure smart projects and find connection systems suitable for the communication of digital and analogue devices, both indoor and outdoor, wireless, wired and sensor-integrated.



Techno solutions for IoT



ADVANCED

To control drivers, sensors, controllers, and manage lighting installations or smart devices remotely.



INTEGRATED

To integrate existing products made by third parties and adapt to technological innovations.



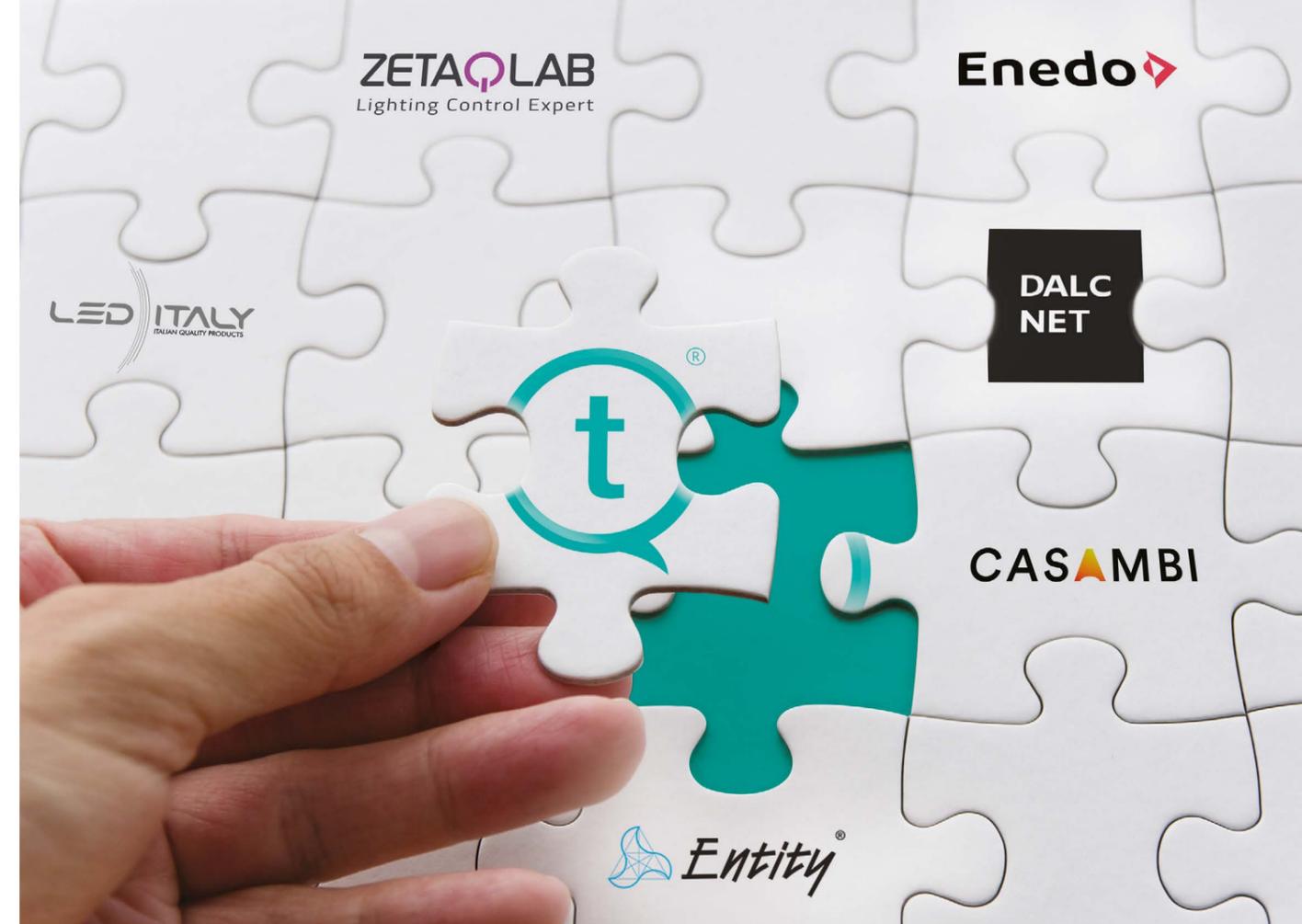
MODULAR

To bring together devices with different communication protocols and connection types in a single installation.



SAFE

Thanks to products such as TEEIoT Wired, TEEIoT Wireless, sensors or custom products, communications are stable, thanks to the quality of the Techno product.



ENTITY ELETTRONICA SRL (ITALY)

Solutions of Dimmable Micro-electronics (DC power signal)

ENEDO OYJ (FINLAND)

Professional industrial power solutions

DALCNET SRL (ITALY)

Professional dimming solutions based on standard protocols (DALI, DMX ...)

CASAMBI TECHNOLOGIES OY/ INC. (FINLAND)

Architectural smart lighting solutions with bluetooth protocol

LED ITALY SRL (ITALY)

Lighting solutions linear for outdoor environments (signal + DC power)

ZETAQLAB SPA (ITALY)

Wireless and wired, stand-alone and interconnected lighting control systems

Our IoT partnerships

The Internet of Things, or 'IoT', is an increasingly advanced ecosystem that connects humans and machines in a continuous exchange of data and information that is revolutionising the way we live, not just work.

Our goal is to create a network of companies that integrate their products and services, in order to offer efficient solutions that meet all the technological requirements needed for the IoT ecosystem to function properly.

In this landscape, for individual devices to function, the necessary condition is a stable, secure connection that can be integrated and compatible with the different platforms that companies in the sector are developing.

Applications



 **RESIDENTIAL BUILDINGS**

Linear and branch connectors for quick and easy home automation installations, even with dimmable signals.



 **SPORTS FACILITIES**

Plug & Play solutions with IP>54 rating and able to integrate and manage devices with dimmable power signal (AC, DC, DMX, DALI).



 **INDUSTRIAL AREAS**

Plug and socket connectors connectors that transfer AC/DC power combined with signals from sensors or devices such as RS 485, Ethernet, SPE.

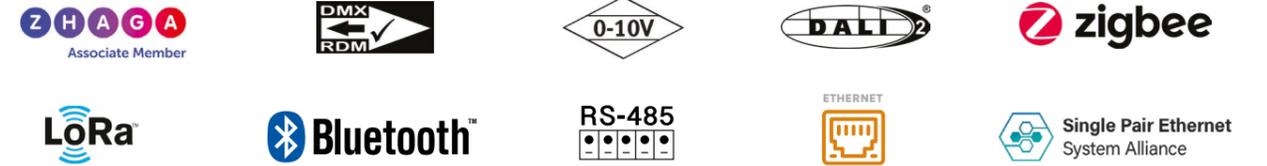


 **URBAN AREAS**

Solutions dedicated to plant engineering able to connect and transfer signal and power from smart devices to actuators present in the ecosystem.

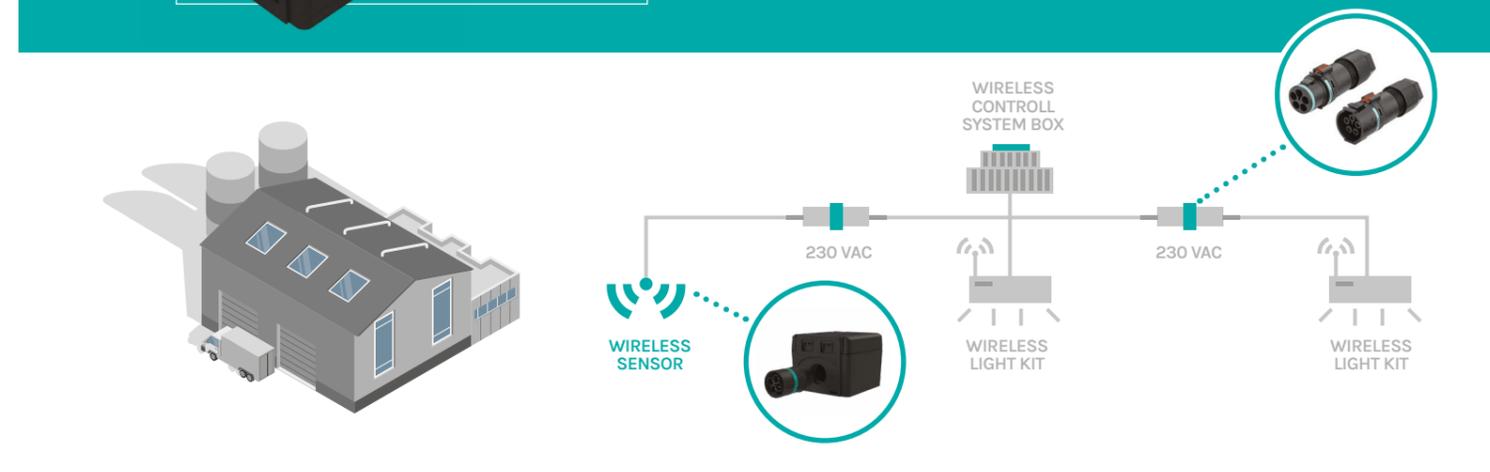
Technologies and configurations

The product configurations proposed by Techno, combined with the various communication protocols, allow internationally standardized connection solutions such as:

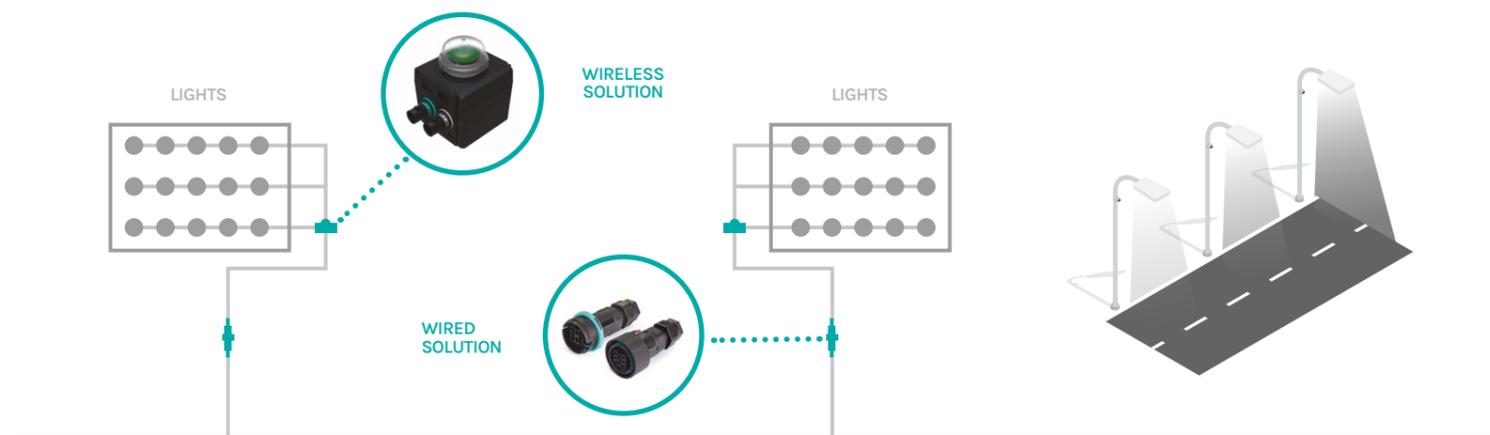



TH212

- New mini-junction box
- Different configurations
- Wide range of accessories
- Can be integrated with sensors, electronics and drivers



Wireless solutions (e.g. industrial applications)



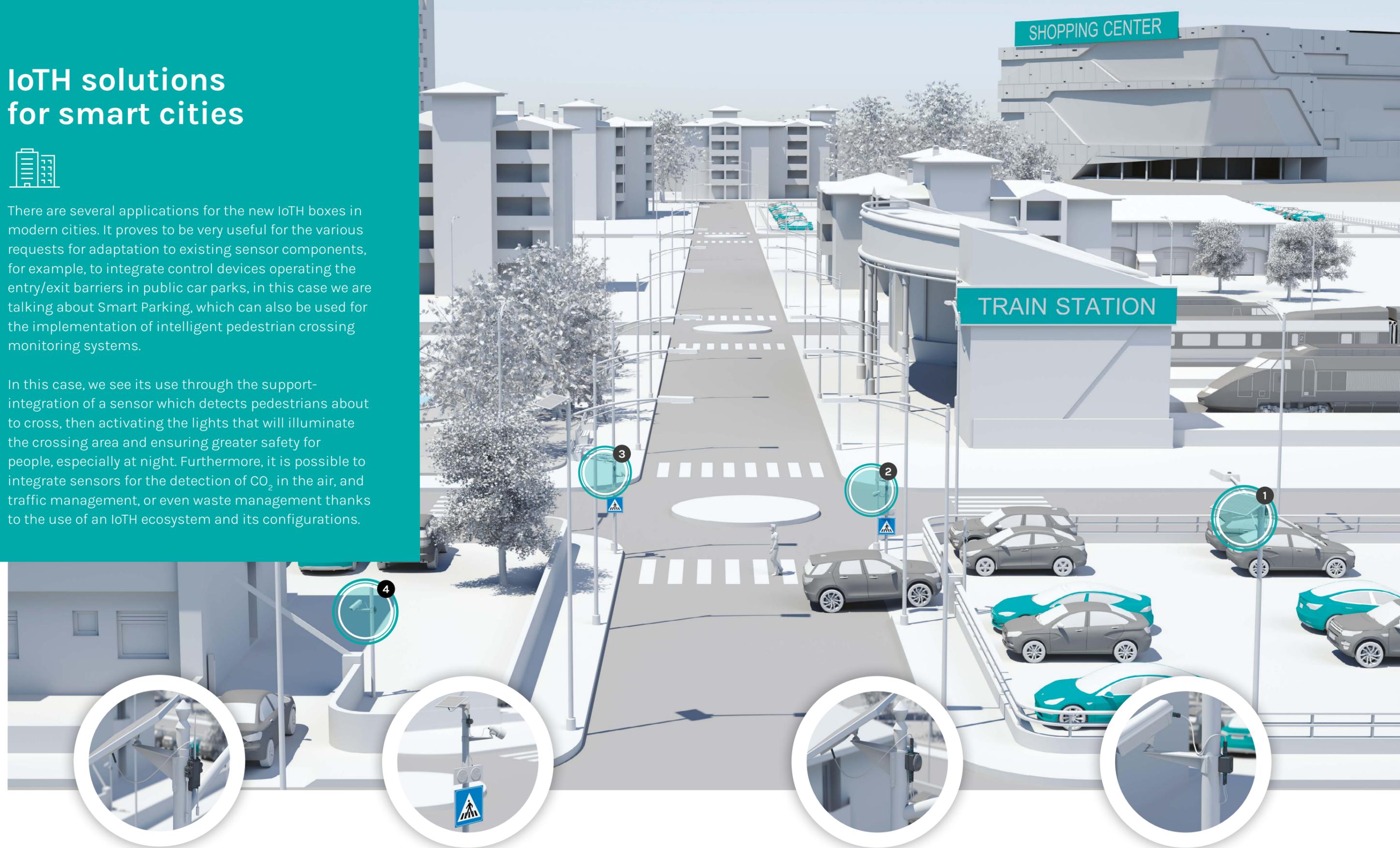
Wired solutions (e.g. urban and sports applications)

IoT solutions for smart cities



There are several applications for the new IoT boxes in modern cities. It proves to be very useful for the various requests for adaptation to existing sensor components, for example, to integrate control devices operating the entry/exit barriers in public car parks, in this case we are talking about Smart Parking, which can also be used for the implementation of intelligent pedestrian crossing monitoring systems.

In this case, we see its use through the support-integration of a sensor which detects pedestrians about to cross, then activating the lights that will illuminate the crossing area and ensuring greater safety for people, especially at night. Furthermore, it is possible to integrate sensors for the detection of CO₂ in the air, and traffic management, or even waste management thanks to the use of an IoT ecosystem and its configurations.



1

Integration of sensors for CO₂ monitoring. Solar-powered system.

2

Sensors integration to manage signal and lighting elements keeping safe pedestrian crossing.

3

Sensors integration for the urban lighting intelligent management.

4

TH212 junction boxes wired with standard functionality for video security.

IoT solutions for horticulture



IOTH212 smart horticulture is an integrated, intelligent system that helps farmers monitor their crops and speed up the growth process.

It consists of the control of LED lights properly positioned and wired with various sensors.

The use of the IOTH212 platform allows a new, intelligent system approach to be implemented, with sensors to detect the percentage of humidity, oxygenation and temperature in the greenhouse in order to better manage the various ventilation systems and optimise consumption.



1

Wired sensor connections for detecting micro-climatic conditions.



2

Wired connections of the lighting system with control elements and LED source management.



3

Wired connections of ventilation devices to improve the indoor climate in the greenhouse.

Techno dedicated solutions to IoT applications

With the IoTH platform you can create complex systems that integrate third-party devices through secure, stable connections guaranteed by Techno quality. Here are some of the products you can find within the platform to bring your smart project to life. The IoTH solutions are compatible with the existing IP66/IP68/IP69 connectors and with the wide choice of accessories in the Techno catalog.



TH209

- 4-way mini-junction box
- Parallel and serial wiring
- Pre-configured with TH384 pluggable connectors
- IP66 / IP68



TH210

- 4-way junction box with control device
- IK10 (Ambient temperature +25° C)
- IP66 / IP67 / IP68



TH629

- 3/4-way power distributor with TH389 pluggable connectors
- Available up to 5 poles
- Integrated with DCDC, VIN Bus and IOUT LED load



TH400

- Joint connector pre-configured with TH384 pluggable connectors and Techno accessories
- It can be integrated with electronic components and dimmers
- IP66 / IP67 / IP68



TH212

- Mini-junction box with breakthrough walls
- Parallel and serial wiring
- Can be integrated with other products from the Techno range, sensors, electronic components and drivers.
- IP66



TH625

- 3/4-way power micro-distributor with pluggable connectors
- Can be used for DC-DC connections
- Analog and digital signals management (PWM, DALI, 1-10)
- IP66 / IP68



TH450

- PG9/M16 cable gland
- Integrated with DC-DC converter (Vin=12-24 V, Iout=350-700mA)
- IP66 / IP67 / IP68
- xDRY®



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Management System
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