THE STREET LIGHTING OF TOMORROW CAN DO MORE

Wi-Fi meshing
» Public infrastructure for future Smart City applications
» Public Wi-Fi for mobile freedom and fast, area-wide internet

High-speed network for private individuals and industry
» Gapless supply even in structurally weak regions
» Efficient internet for satisfied residents and businesses

Smart Metering
» Wi-Fi counters read energy consumption (e.g. electricity, gas, water, heat)
» Creation of load profiles for the municipalities

Highly efficient LED technology and control system
» Energy-efficient and cost-saving
» Individually dimmable and switchable
» Inventory of street lights
» Display of maintenance and operating states

Safety for city and residents
» Installation of cameras and sensors for more safety on the streets – also with regard to vandalism

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EBERO™ PIPE SYSTEMS

energiedata 4.0

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EBERO™ PIPE SYSTEMS

MODULUS

Forward-thinking and energy-efficient LED technology

Mobile freedom and fast internet – everywhere

Networked solution for safety and smart metering

SMART SOLUTIONS FOR THE URBAN FUTURE OF YOUR CITY / MUNICIPALITY

Increasing urbanisation and growing demands on digitisation set new challenges for cities and municipalities. Existing problems, for example in transport infrastructure, as well as innovative products and services such as SmartHome, E-mobility, energy efficiency, communication, information and security demand new solutions

Basic, but innovative

Working with our partner energiedata 4.0 GmbH, to offer a smart, modular and low-maintenance street light that creates a synergy between light management and the digitisation of infrastructure.

The compatibility with your existing lighting colomn allows you to benefit from a straightforward and cost-effective conversion to the new MODULUS LED technology. The modular concept of the lamp head also gives you the peace of mind that your MODULUS street lights can be upgraded at any time.

Bright head with added value

The MODULUS street light uses clever technology in the lamp head to extend existing data highways and thus provides a stable Wi-Fi infrastructure with fast internet access. This means that public WI-FI is wherever you want it.

The intelligent bridge to fibre optic expansion

Fibre optic networks are essential for high data transmission. However, due to cost constraints, high speed fibre optic networks are often only installed up to a main distribution frame in the city centre. For routing to the house connection, the so-called "last mile" (FTTB, FTTH), the existing infrastructure with slower copper cables is used, which creates a bottleneck effect. The speed is slowed down and does not reach the end customer.

Access points in the MODULUS street light provide area-wide data transmission from light to light (each light is a hotspot). This makes it possible to flexibly create a high-performance Wi-Fi mesh network of any size and ensures the supply of broadband internet to buildings in areas that are not yet connected to a fibre optic network.

Preparing today's structures for tomorrow's requirements

Cities and municipalities need sustainable concepts in order to keep an eye on cost and energy efficiency. As a supplier of system components, we create double added value for cities and municipalities. Take advantage of our expertise and know-how in retrofitting cost-efficient and environmentally friendly LED lights. Increase the comfort, attractiveness, safety and economy of your city or municipality. Make the lives of your residents and guests smarter with MODULUS.

MORE THAN LIGHT. BRIGHT SOLUTIONS!

Versatile. Efficient. Sustainable

1
Comfortable

Increase the attractiveness of your city centre with public Wi-Fi and Smart City applications and ensure that residents stay well-connected even in places without a comprehensive fibre optic connection.

2
Economical

The switch pays for itself quickly. With MODULUS street lights you can lower your energy costs by up to 70% thanks to modern LED technology, reduce maintenance costs and generate additional income by renting the access points to providers.

3
Sustainable

LED lighting technology is not only highly efficient, but also particularly durable and easily disposable. Retrofitting is based on existing lighting colomn. This protects not only the coffers, but also the environment.

4
Environmentally friendly

Lower your energy consumption and reduce the CO2 emissions of your city through the use of LED technology, so that you can ensure an environmentally friendly future.

INNOVATIONS FOR SMART CITIES

The street light of today becomes the data highway of tomorrow

- digital control and monitoring of street lighting with management system incl. GPS location and automatic inventory
- smart meters (reading and billing systems)
- energy control (virtual power plants)
- improved safety through integrated camera and sensor technology
- additional services such as VOIP telephony, TV streaming, music services, media library, App Store
- data tracking and analytics (municipal statistics)
- traffic and parking guidance systems
- infrastructure for autonomous driving
- location for 5G modules & antennas