ANDRA

Smart Grid

Smart City

Industry 4.0

comander

Data transmission in HES, MDM and SCADA systems

Communication terminals

Device population management

M2M/IoT: WIRELESS DATA TRANSMISSION

LTE, LTE450, LTE CAT-M1, NB-IoT, 5G

SMART GRID

Data transmission in billing and control systems

comander solutions support:

· collecting metering data from utility meters,

· managing a large population of distributed devices,

· detecting failures.

More than 500 000 *comander* devices are currently used by power grid operators in Poland and Europe.

SMART CITY

IoT in urban areas

comander solutions contribute to the interactive infrastructure of the smart city. They increase the efficiency and security of communication and automate technological processes by ensuring reliable data exchange.

INDUSTRY 4.0

Automation of data processing and exchange

Our solutions ensure flexible adaptation of machines, devices and systems to changing functional requirements.

For multiple industrial sectors:

· we design communication devices,

· we implement required interfaces and protocols,

· we develop embedded applications to meet our customers' requirements,

· we integrate the solution with cloud platforms.

MANAGEMENT SOFTWARE
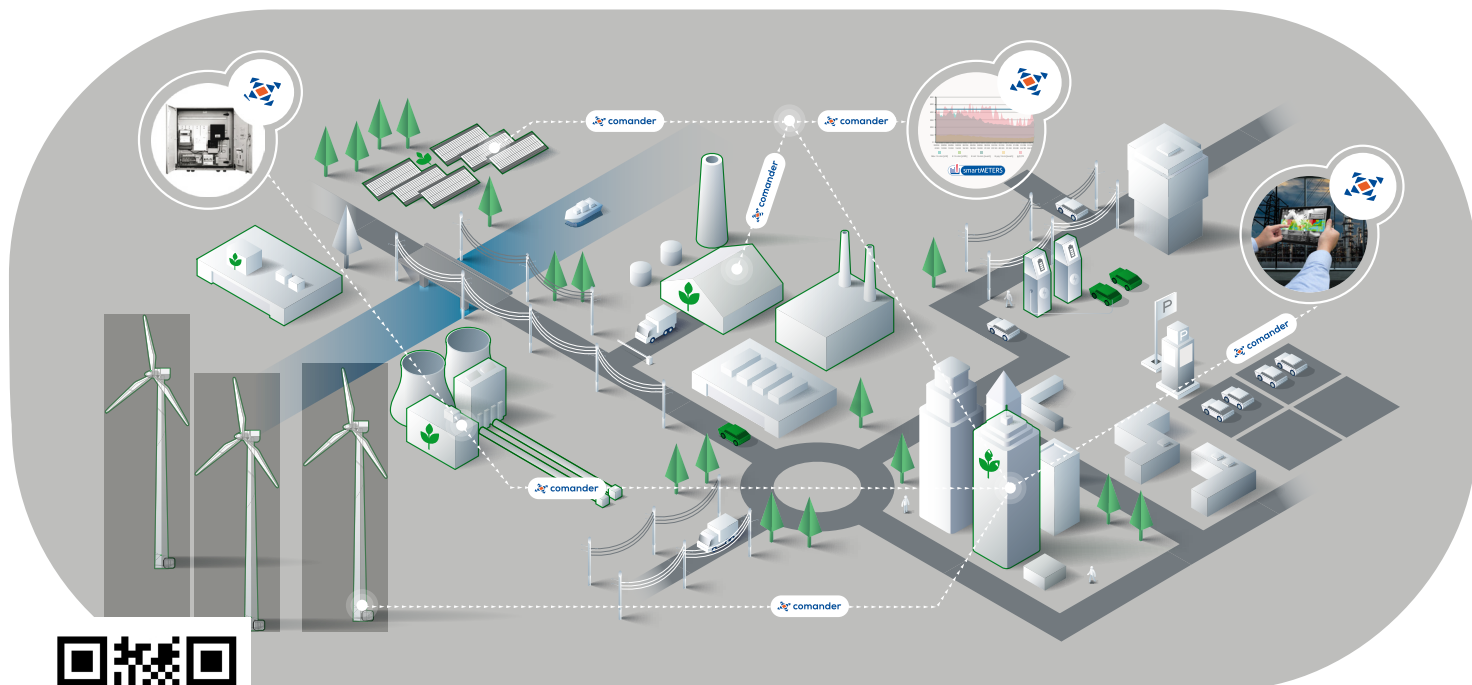
Effective management of field equipment population

· swift detection of failures and events that disrupt data transmission efficiency,

· real-time diagnostics of network parameters,

· streamlined, automated hardware functionality updates,

· compatibility with equipment from other OEMs.

amiGO

In the era of Industry 4.0, the measurement, diagnostic, control, and security infrastructure involves thousands of distributed devices. How can we ensure effective and stable communication and data transmission between these devices and central systems?

The *comander* platform enables wireless data transmission wherever cable connections are not possible. The complete system includes transmission terminals (modems and routers) together with utility software and application for monitoring and diagnostics of the entire population of devices.

comander

COMMUNICATION TERMINALS LTE * HSPA * GPRS * CDMA * WIRELESS M-BUS				MONITORING AND MANAGEMENT SOFTWARE
Industrial routers	General purpose modems	Dedicated modems	Data concentrators	
Wide range of supported communication protocols and interfaces Reliable last mile communication Modular architecture Application support for SCADA, Smart Grid, Smart City systems Security of data transmission Conformity with industrial standards Compact size Visualisation of operating status Design as per individual specifications				Remote management of device population: » Configuration » Diagnostics » Upgrade » Reporting