

Nová generácia komunikačnej technológie zariadení Landis+Gyr

E65C communication unit (*komunikačná jednotka E65C*)

The most comprehensive communications portfolio in the industry

The E65C communication unit family offers the broadest range of modules for industrial and commercial metering.

- More than 10 different communication units
- 2G, 3G and 4G radio technology
- Compatible with E850, E650 and S650 meters
- SCADA system compatibility with CU-XE



Overview



What's new



References



Product overview

The challenge

- Securing utility's investments by acquiring an open and standard based communication module that can meet future market requirements in metering
- Improve operational efficiency by implementing remote meter reading and other AMI applications
- Achieve cost efficiency and flexibility through a wide range of communication technologies depending on site conditions during meter deployment

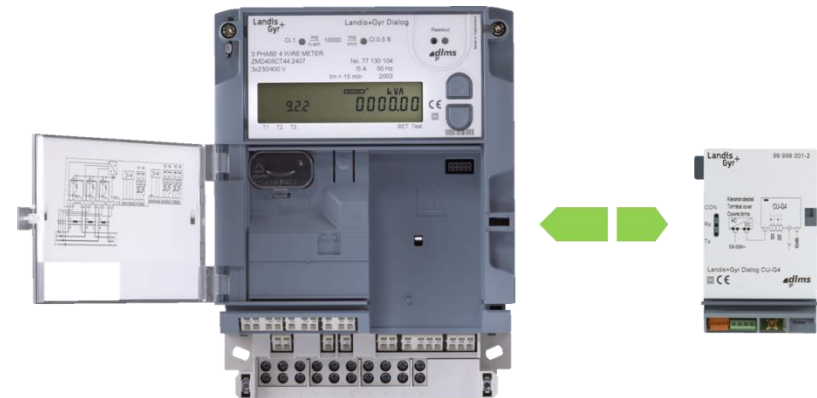
Maximizing security of utility's long-term investments in grid and smart metering through intelligent communication capabilities

Replaceable in the field to deliver new functionality

E65C key features

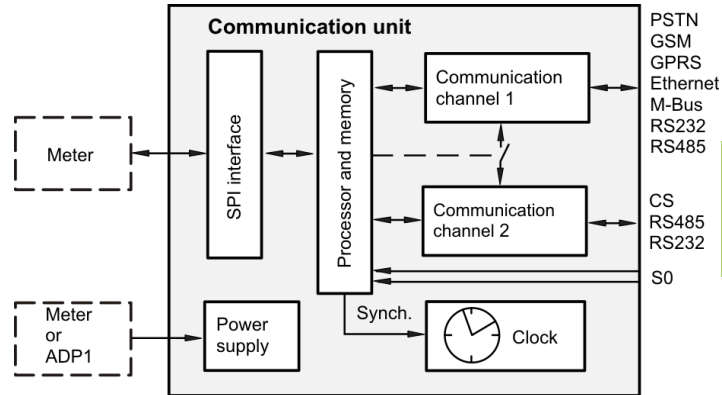
- Plug-and-play module installation
- Replaceable in the field
- Backwards compatible with all E650 meters
- Electromagnetic compatibility guaranteed for entire meter point
- Powerful Microcontroller implements protocols and switching functions
- DLMS and IEC 62056-21 protocols compliance
- Two independent channels to meter

Modular E65C portfolio from a trusted supplier ensures investment in meter or systems are not stranded.



Much more than a transparent modem

Powerful Microcontroller implements protocols and switching functions



DLMS and IEC 62056-21

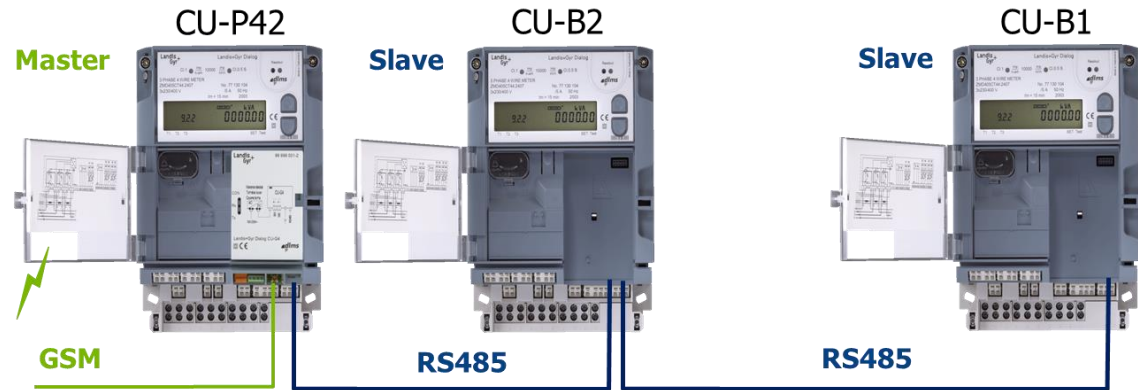
- Protocol aware
 - IEC Baud rate switching to maximize readout speed
 - Configuration and control by open DLMS standard
- Meter Security System available to control access to modem configuration

Two independent channels to meter

- Installing a module allows remote access and readout via a serial port simultaneously
- Ideal for independent third party validation

Multi-drop RS485 Bus

- Up to 32 meters can share a single CU
- Simple installation – all configurations can be factory assigned, including meter addresses
- Extendable
- Ideal for Meter Room applications



- Broadest selection of communication units to fit the utility network architecture, size and the existing communication infrastructure
- 2G, 3G and 4G radio technology
- Integrated and modular options available
- Multiple connections
- Multi-master operations
- Multi-protocol support

Interchangeable Module (Meter-Type T)	A4	A5	B1***	B2	B4	D2	XE111**	P40	P41*	P42*	U52*	L52*
LTE Module	■	■	■	■	■	■	■	■	■	■	■	■
UMTS Module	■	■	■	■	■	■	■	■	■	■	■	■
GPRS+GSM Module	■	■	■	■	■	■	■	■	■	■	■	■
Fast Ethernet Interface	■	■	■	■	■	■	■	■	■	■	■	■
RS485 Interface	■	■	■	■	■	■	■	■	■	■	■	■
RS232 Interface	■	■	■	■	■	■	■	■	■	■	■	■
CS Interface	■	■	■	■	■	■	■	■	■	■	■	■
MBUS Interface	■	■	■	■	■	■	■	■	■	■	■	■

* can be used as an external CU adapter
 ** has two fast Ethernet interfaces
 *** 2 S0 Pulse Inputs



With the E65C portfolio you get:

Multi-modular architecture, easily upgradable to future market needs

Revenue protection

Broadest portfolio in the market

More than 10 communication units with multiple connections

Easy plug-and-play installation
Multi-master operations with one communication unit for several meters

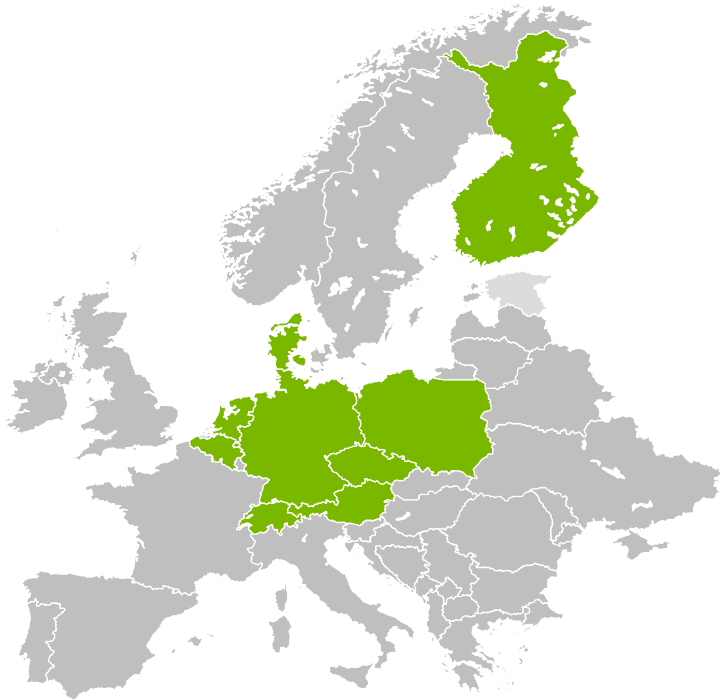
Cost-effectiveness

Improved operational efficiency

Specifically designed for remote meter reading and other AMI operations

References

Broad product acceptance



Important countries

Landis+Gyr's deliveries

- Belgium
- Netherlands
- South Africa
- Poland
- Switzerland
- Czech Republic
- Finland

What's new

New CU-XE111 with RTU functionality



Cost-effective collection of data at grid edge

- Interoperable with SCADA, AMI and other Energy Management Systems thanks to multi-protocols:
 - IEC 61850 Operational and Commercial Meter models
 - IEC 60870-5-104 Controlled Station
 - Modbus
- Secured communications
 - Standards-based IPsec tunnel with key management and strong encryption
 - Secure Element protects certificates and private keys
- Advanced networking
 - IPv4/IPv6 dual stack is future-proof
 - Ethernet bridging
- Dual Fast Ethernet, RS485/RS422 and RS232 interfaces



Krátke prezentačné video k jednotke CU-XE je na :

<https://www.youtube.com/watch?v=0ATa3TMcW-k>

New CU-L52 module with 4G LTE



The highest performance for the most valued customers

- Long Term Evolution (LTE) technology category 1 mobile station
- Ultimate longevity in terms of mobile network compatibility
- Improved coverage:
 - in combination with 2G technologies
 - with 4G wireless repeaters
- DLMS with up to 60% reduction in readout time
- Ideal for IP based communication
- Compatible with E650, E850 and Landis+Gyr's Smart Grid Terminal S650
- MAP tool allows readout of diagnostic information for a single meter point



Ďakujem Vám za pozornosť

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