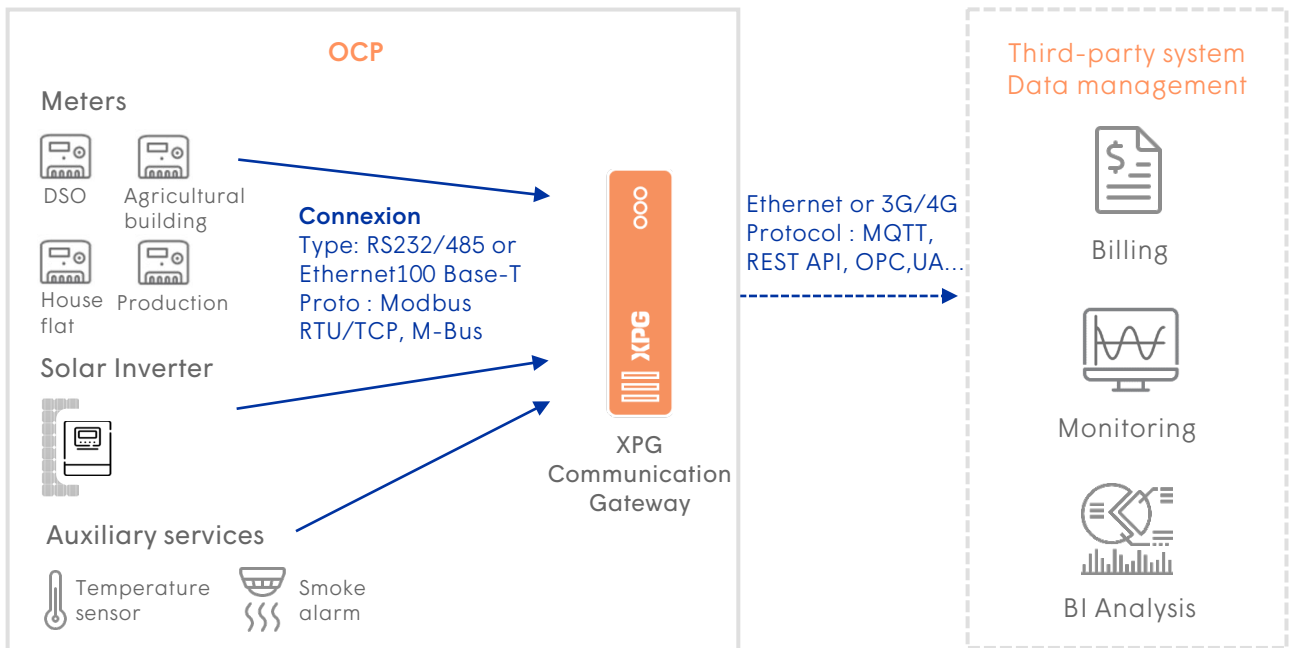


# XPG - Gateway : data transmission for an efficient OCP management

Based on the XPG-IG2LTE Gateway, this solution offers data transmission from electricity meters to the customer's billing system as part of Own Consumption Pool (OCP).

Consumption, production, extraction and re-injection of electricity on the grid of a DSO are collected by XPG-IG2LTE gateways. These gateways ensure acquisition and transmission of data via a protocol supported by the customer's billing, analysis and/or monitoring system.

## Solution schematics



## Hardware

### XPG-IG2LTE Communication Gateway



- XPG-IG2LTE, ISOS (Industrial Secure Operating System), Quad-core Cortex-A53, 1.8GHz Power supply 8-36 VDC, 2x Ethernet Ports, 3x Serial Ports, Temperature: 0 to 60°C, Dimension: 112 x 84 x 25 mm, RAM 2 GB, DIN Rail Mount, Modem for 3G/4G (5G to come) communications.

Check out our product sheet:  
[IG2 device for XPG](#)

## Key features

### Protocol

- Modbus TCP Client
- Modbus TCP Server
- Modbus RTU Master (serial)
- Modbus RTU Slave (serial)
- MQTT Publisher/Subscriber
- OPC UA Client
- OPC UA Server
- REST API (RESTful API)
- IEC 60870-5-104 Client
- IEC 60870-5-104 Server
- SNMP Client (v2c, v3)
- M-Bus (with inverter)
- LoRaWAN<sup>®</sup> (with inverter Arolys)
- Etc.

### Data inverter standard

- SunSpec

### Data acquisition

- From inverter
- From meter
- From sensors, PLC, IO modules...

### Centralised solution for

- Data processing
- Data storage
- Data management

### Data provided to

- BI analysis
- Invoicing
- System monitoring

### Data transmission frequency

- Every 15 minutes (configurable)

### Local data backup

- Local backup in case of network connection failure with automatic transfer upon communication recovery (configurable maximum backup period, e.g. for 60 days)

## Use Cases

The data is collected on the XPG-IG2LTE gateway via a serial communication or an Ethernet connection.

A VPN tunnel is recommended (IPSec or OpenVPN) directly with the customer's firewall or with an application provided by Elvexys and installed in the infrastructure of the centralised system.

A central data processing and storage solution with interfaces allows the customer to connect his own analysis, billing or monitoring applications.

## Highlight

- Offers a standard solution to OCP managers with independence from meter and management system vendors
- Scalable and reliable solution
- High level of cyber security
- intuitive online configuration management platform
- Easy to use management tools
- Customer support