# Sagemcom



**SICONIA**
Elec

# XP6000

Multi-energy data concentrator
for AMI infrastructure

The **XP6000 platform** is a device primarily designed for **Smart Metering / Smart Grid** to manage a fleet of multi-energy smart meters, smart grid sensors (RF or IoT). Through OFDM-PLC power line coupling protocol as defined into ITU-G series, IoT Technologies (**WIZE** or **LoRaWAN**), it gathers and treats that information and passes them to the information system in gateway / data concentrator modes.

# Technical features

### GENERAL CHARACTERISTICS

- Embedded PLC modem, in compliance to G3-PLC or PRIME-PLC
- Optional WiZE or LoRaWAN modems
- 2x WAN Ethernet socket
- 1x Extractible WAN modem (GSM/GPRS, UMTS, LTE)
- Optionally simple, double SIM or chip SIM
- Internal RTC with internal backup
- Top cover and terminal opening detection
- Metallic sealing
- Internal backup power supply for last call management
- Embedded Hardware Secure Module
- Integrated Current Transformer metrology (including metrological LED) for Smart Grid application
- LCD associated button
- Duration life 15 years

### MECHANICAL CHARACTERISTICS

- Housing: class II with double isolation
- Mechanical resistance (EN 62262): IK07
- Dimensions (Height x Width x Depth): 183x176x92 mm
- Weight: 900g
- Mounting:
    - DIN rail according to IEC 60715 type TH 35-15
    - Screws

### ENVIRONMENTAL CONDITIONS

- Operating range: -25 C to + 70 C
- Storage and transportation: -40 C to +70 C
- Humidity: ≤ 95 % at +40 C
- Mechanical protection (IEC 60529): IP51
- Safety – Flammability level: 5VB

### ELECTRICAL CHARACTERISTICS

- Reference voltage: 1x230V or 3x230V / 400V
- Frequency: 50 – 60 Hz
- Current: 5(10) A
- Average consumption: 10W / 65 VA without communication
- Operating reserve: product not affected by power cuts lasting less than 500ms
- Internal power supply backup: maintain functions during 1min

### METROLOGY CHARACTERISTICS

- Accuracy Class
    - Active Energy (EN 50470-3): B
    - Reactive Energy (IEC 62053-23): 2
- CT ratio: Configurable. Default = 1
- Metrology LED:
    - Active Energy 1Wh/imp
    - Reactive Energy: 1varh/imp

### HARDWARE ARCHITECTURE

- PLC modem: G3-PLC Technology
- RF modem: WiZE or LoRaWAN Technology
- Extractible WAN modem: connection with remote SI via mobile network. Equipped with dual SIM on single wireless modem
- WAN Ethernet interface: can operate in 10BASE-T and 100BASE-T, half and full duplex
- Local Ethernet interface: 100Mbps for local equipment configuration. Can operate in 10BASE-T and 100BASE-T, half and full duplex
- LCD/Button: used to display/monitor the XP6000 status

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