Sagemcom

XS212-NG

Single Phase Smart Electricity Meter



- **Cellular communication LTE Cat M / NB1 / NB2**
- **Automatic Switch Cat M / NB1 / NB2**
- **eSIM MFF2 eUICC**
- **Last Gasp & Neutral current measurement**
- **DLMS Security suite 0 or 1 or 2**
- **Multi-energy: WMBUS 868 MHZ**

SPECIFICATIONS		
Basic Features	**Voltage**	230V
	Maximum current	60A or 80A
	Max switching current	80A or 100A
	Frequency	50 Hz +/- 3 Hz (6%)
	Active Energy	EN 50470-3 Class B
	Reactive Energy	IEC 62053-24 Class 2
	Quadrants	Q1 / Q2 / Q3 / Q4, Import / Export Energy
	Real Time Clock	Supercap 7 days or Battery 3 years
	Lifetime	> 20 years
Environment	**Temperature limit range of operation**	-25°C / +55°C
	Humidity	< 95%
	Protection Index	IP 54
	Fire protection	5-VB (UL94)
Customer Interaction	**Display**	LCD: Dot matrix 5 x 8 Digit Size: 8x3 mm Symbols: 48 (3 lines of 16) Scrolling: auto and manual Backlight: option, remotely configurable
	LEDs	1 for Active Energy 1 for Reactive Energy
	Push Buttons	Main button for menu scrolling and content reading Sealable button for maintenance

MECHANICAL CHARACTERISTICS	
Sealing method: Top cover and bottom cover are sealed together by ultrasonic welding. The terminal block cover is sealed by one dedicated wire-sealable screw.	
Connection diagram	DIN 43856
Mounting	DIN 43857
Cable size	4 – 35 mm²
Terminal Screws	2 screws M6 (Pozidrive) or 1 screw M8 (Pozidrive)
Size (H*W*D)	195x130x75mm (incl. 37mm free space)

INTERFACES		
Integrated communication interfaces	**Maintenance interface**	Optical port (IEC 62056-31)
	HAN customer interface	P1 DSMR 5.0.2 and/or RS485
	Cellular Modem	LTE Cat M / NB1 / NB2 Band 3, 8, 20, 28 Embedded Modem and Internal antenna SMA connector for external antenna
	Multi-energy	Embedded wMBUs with internal antenna, and SMA connector for external antenna (option)
Switches	**Auxiliary Relays**	Up to 2 monostable 5A/230V relays



NB-IoT

LTE-M

IDIS®

Technical features

TIME OF USE

- Programmable Load profiles:
  capture list / capture COSEM objects / capture period
- Programmable Billing profiles:
  capture list / capture COSEM objects / capture period
- Tariff management via built-in programmable output relay
  Calendar/Time of Use management

POWER QUALITY & LTE MONITORING

- Voltage Interruptions (Power down)
- Voltage Restoration (Power Up)
- Neutral loss detection
- Power Supply Quality
- Neutral loss detection
- Last Gasp
- LTE Monitoring Profile

SECURITY, INTEGRITY AND VERIFICATION

- DLMS Security Suite 0 or 1 (ready for Suite 2)
- Auto diagnostic
- Local access to the meter by DLMS authentication Password (via the optical port)

FIRMWARE AND LOAD MANAGEMENT

- DLMS / COSEM
- Load Disconnection: locally and remotely
- Meter and Modem Firmware upgrade: Local and remote

FRAUD DETECTION

- Magnetic field detection
- Magnetic field immunity
- Neutral current measurement for fraud detection
- Top Cover and Terminal block cover opening/closing detection
- Current inversion detection
- Main power cut detection
- Power factor variation detection

CERTIFICATIONS

- MID Directive 2014/32/EU and the Radio Equipment Directive (RED) 2014/53/EU
- CE Declaration
- LTE CATM / LTE CAT NB2/NB1 (NB-IoT)
- UC3 (breaker) EN 62052-31
- Local/Country Certification on demand

Note: this list of functionalities is not exhaustive. Deeper features list and Security detail can be delivered on special demand under Non-Disclosure Agreement (NDA).

CORE ARCHITECTURE

ARM Cortex Trustzone, certified SESIP Level 3.

One AES engine including DPA-resistant implementation against side-channel attacks.

Hardware accelerators for:

- AES / SAES
- SHA-1 / SHA-2 hashing
- Public Key Accelerator (PKA)
- True Random Number Generator (TRNG)

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