

Q Meter Alliance

MA
METER ALLIANCE
COMPANY LIMITED

PLC SMART METERING

Powered By Nessum Technology



**BROADBAND SPEED
to the GRID:**

Max PHY Rate:
UP TO 250Mbps



NO SIGNAL? PLC WORKS!

**COMMUNICATES WHERE
WIRELESS FAILS:**
Reliable Connection
(Even Through Walls)



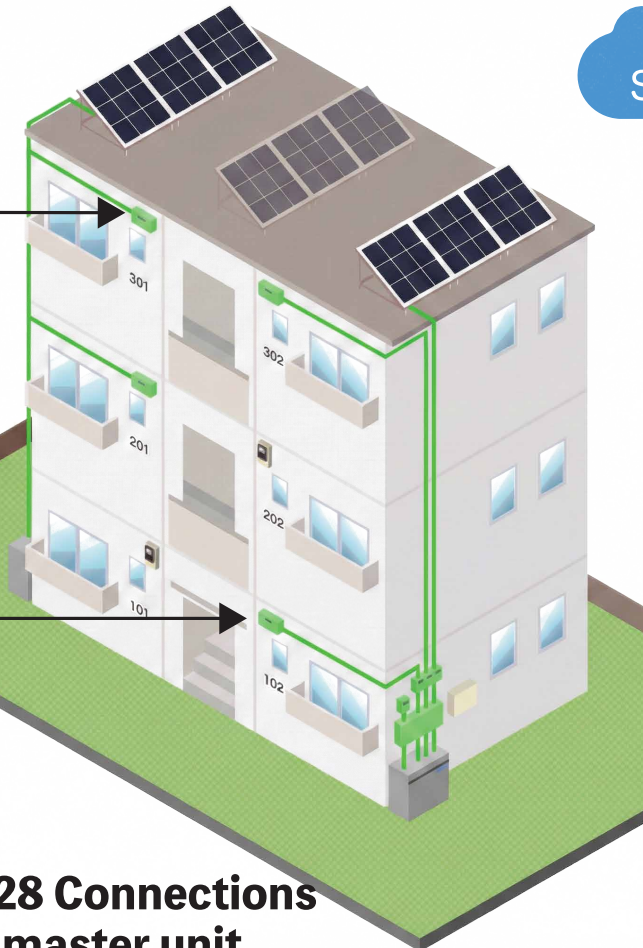
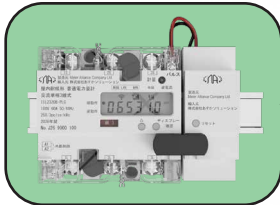
**REQUIRE REAL-TIME
UTILITY DATA:**

Instant Updates and
Monitoring via PLC

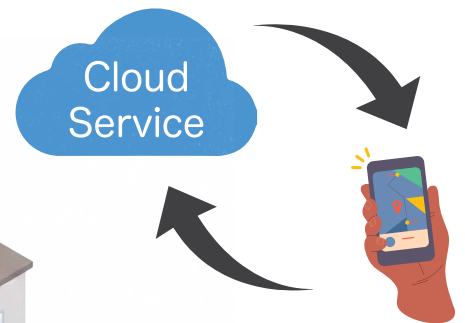
BUILD IT ON PLC

《Network Diagram》

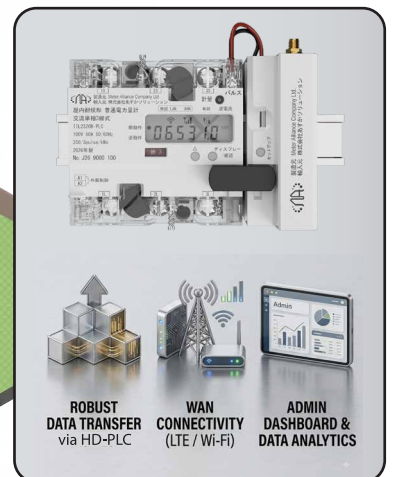
SUB METERS (with CM30 PLC Module)



***Up to 128 Connections
for a master unit**



MASTER METER (with CM31 PLC Module)



Transforming Smart Meters into Broadband Grid Gateways

Upgrade from simple billing recorders to real-time grid intelligence hubs. PLC delivers the high-speed, reliable data pipe needed for the modern, decentralized power gride without the cost of new wiring.

PLC COMM MODULE

Converts existing power lines into high-speed data paths, eliminating new wiring and complete RF Immunity.

CM31 Master unit with IIL2320



CM30 Sub unit with IIL2320



REMOTE RELAY CONTROL

Remotely connect or disconnect user power via the built-in meter relay.

MESH NETWORK TOPOLOGY:

Automatic data routing between meters via PLC for unparalleled reliability.

SEAMLESS CLOUD INTEGRATION

Direct data upload to your platform via LTE or Wi-Fi.

SPEC:	CM31 MASTER UNIT	CM30 SUB UNIT
Materials & Dimension	Plastic, type PC (UL-94 V-0) Colour: White (JPMA code: GN93) 38.0x97.5x91.0mm (dxwxh)	38.0x97.5x79.0mm (dxwxh)
Power Supply	AC 100V ~ 240V	
Weight	approx. 140g	
Medium	Power line	
Frequency Band	2 MHz - 28 MHz	
Modulation	Wavelet OFDM	
Antenna	Internal or External Antenna	N/A
Connectivity	Wi-Fi / LTE	N/A
PLC Speed	Max. 250 Mbps	
Temperature	-10°C ~ +55°C	
Humidity	10 ~ 95%	
Security	AES 128-bit	
Standard	IEEE 1901-2020 (PLC Gen4)	

