

G3-PLC Hybrid Solution

Seamless PLC + RF integration for next generation Industrial Communications

Semitech's G3-PLC Hybrid platform offers extended capabilities for Smart Grid and Industrial IoT applications in one seamlessly managed network over both wired and wireless media. Integrating both wired and wireless allows connectivity > 99% while also extending connectivity to RF only devices.



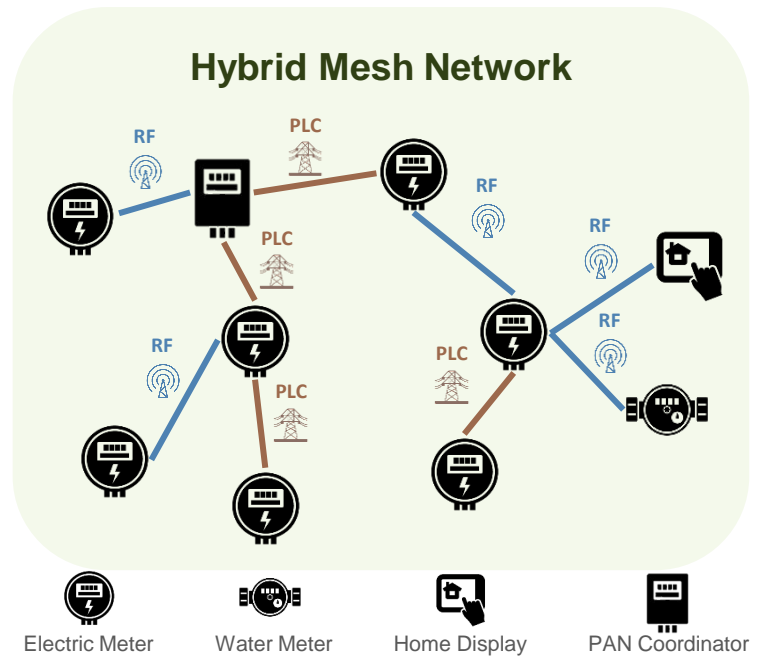
Combined with RF, Semitech's SM2400A PLC modem chip provides the capability to offer an interoperable platform for reducing complexity and cost of network installations based on G3-PLC Hybrid standard.

Features

- Hybrid protocol stack
- Dynamic channel selection for each link
- Fully compatible with existing G3-PLC wired implementations
- Supports all PLC band plans and the 863-870 MHz ISM band
- More ISM radio bands to be covered as the G3-PLC standard evolves
- Secure AES-GCM-128 encryption and authentication
- Reduces complexity and cost effective

Advantages of Hybrid Networks

- Increased Immunity
- Increased Coverage
- Increased Uptime



Evaluation Kit

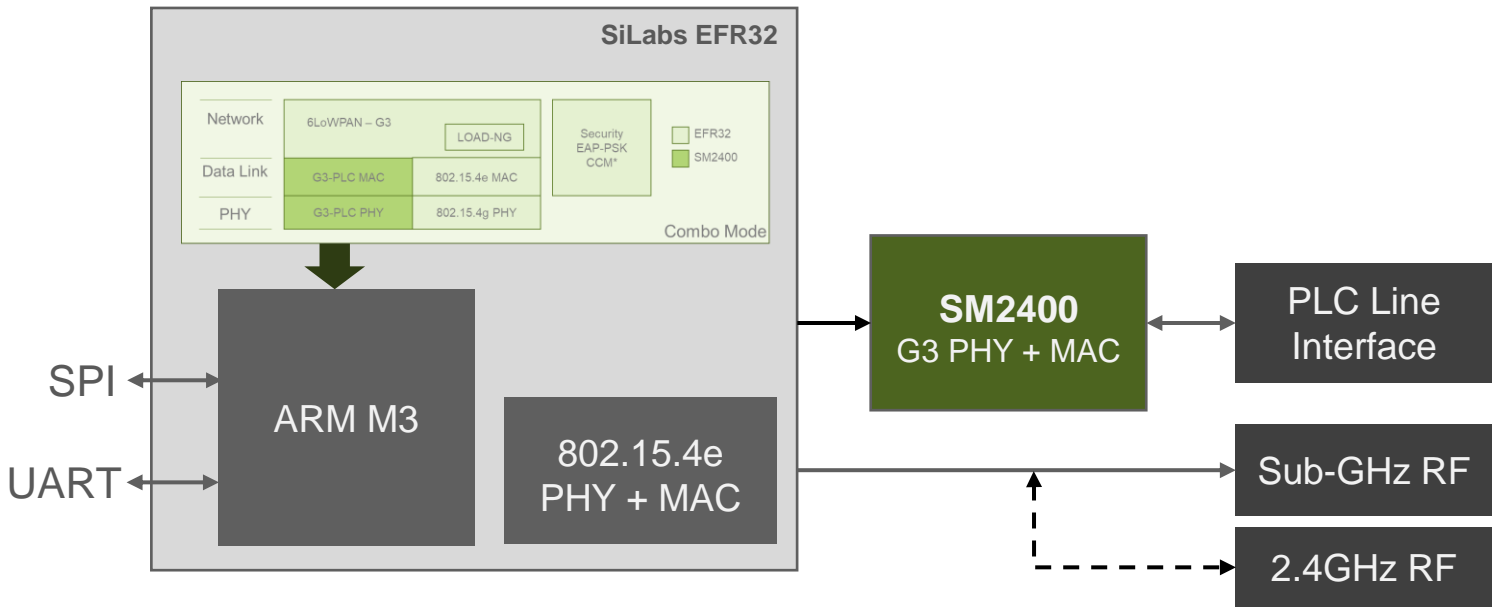
- AC / DC Line up to 275V
- External 15V DC
- GUI-based evaluation tool
- PC connectivity via USB
- RS232 / UART ports

Ordering Part Number:
SM2400-EVK-HYB4-A

Integrated PLC +
RF Module
SM8500



Baseboard
SM9330



Applications

- Smart Grid Communication
 - Water and Gas meters
 - In-home Displays
 - In-home Prepaid Solutions
- Smart Cities
- Industrial 4.0 applications
- Lighting Controllers
- Industrial Sensors



Unified G3-PLC Hybrid PLC + RF Stack

