



product brief

KEY FEATURES

- EV8000 - Universal PLC Modem SoC
- EV8010 - ITU-Standards PLC Modem SoC
- EV8020 - ITU-Standards PLC Modem SoC
- EV8100 - Display PLC Modem SoC

APPLICATIONS

- Advanced Metering Infrastructure (AMI)
- Airport Runway Lighting
- Internet of Things (IoT)
- Home Area Network (HAN)
- Smart Appliances
- Solar Plant Control & Monitoring
- Street Lighting Networks
- Substation Communications
- Traffic Signal Control & Monitoring

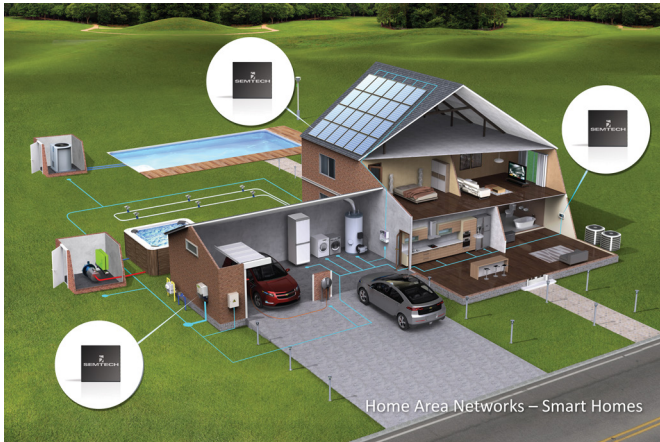


PLC Solutions

Semtech Power Line Communications (PLC) products enable communication via low-voltage and medium-voltage power lines. Power line communications has long been a favorite application for utility companies because it allows them to reliably move data over infrastructure that they own and control. One of the main benefits of PLC to utilities is that it efficiently addresses their communications needs across a vast array of applications (metering, substation monitoring, load control and load shedding, home energy management, etc.) all focused on collectively addressing energy management tasks. Our PLC product platforms work on medium voltage (MV) and low voltage (LV) networks, and our SoC offers both end-device and DCU/Service Node functionalities throughout the PHY, MAC and Convergence layers.

Power Line Communications												
Part Number	Standards	Frequency Bands	Flash Memory	OTP ROM	Key Pad	Segment LCD I/F	Serial Ports	GPIO	RTC	Active Power	Power Rails	Package
EV8000	G3-PLC, PRIME, 4GPLC™	C-A, FCC. ARIB	2MB	384 Bytes	–	–	2 Universal	20	1ms tick	430mW	3V3, 1V2 LVDD	100 LQFP
EV8010	G3-PLC, PRIME, 4GPLC™	C-A, FCC. ARIB	2MB	384 Bytes	–	–	2 Universal	20	1ms tick	430mW	3V3, 1V2 LVDD	64 LQFP 56 QFN
EV8020	PRIME	C-A	2MB	384 Bytes	–	–	2 Universal	6	1ms tick	430mW	3V3, 1V2 LVDD	64 LQFP 56 QFN
EV8100	G3-PLC, PRIME, 4GPLC™	C-A, FCC. ARIB	2MB	384 Bytes	16 Cap Touch	198 (6x33)	2 Universal	24	1ms tick	430mW	3V3, 1V2 LVDD	144 LQFP

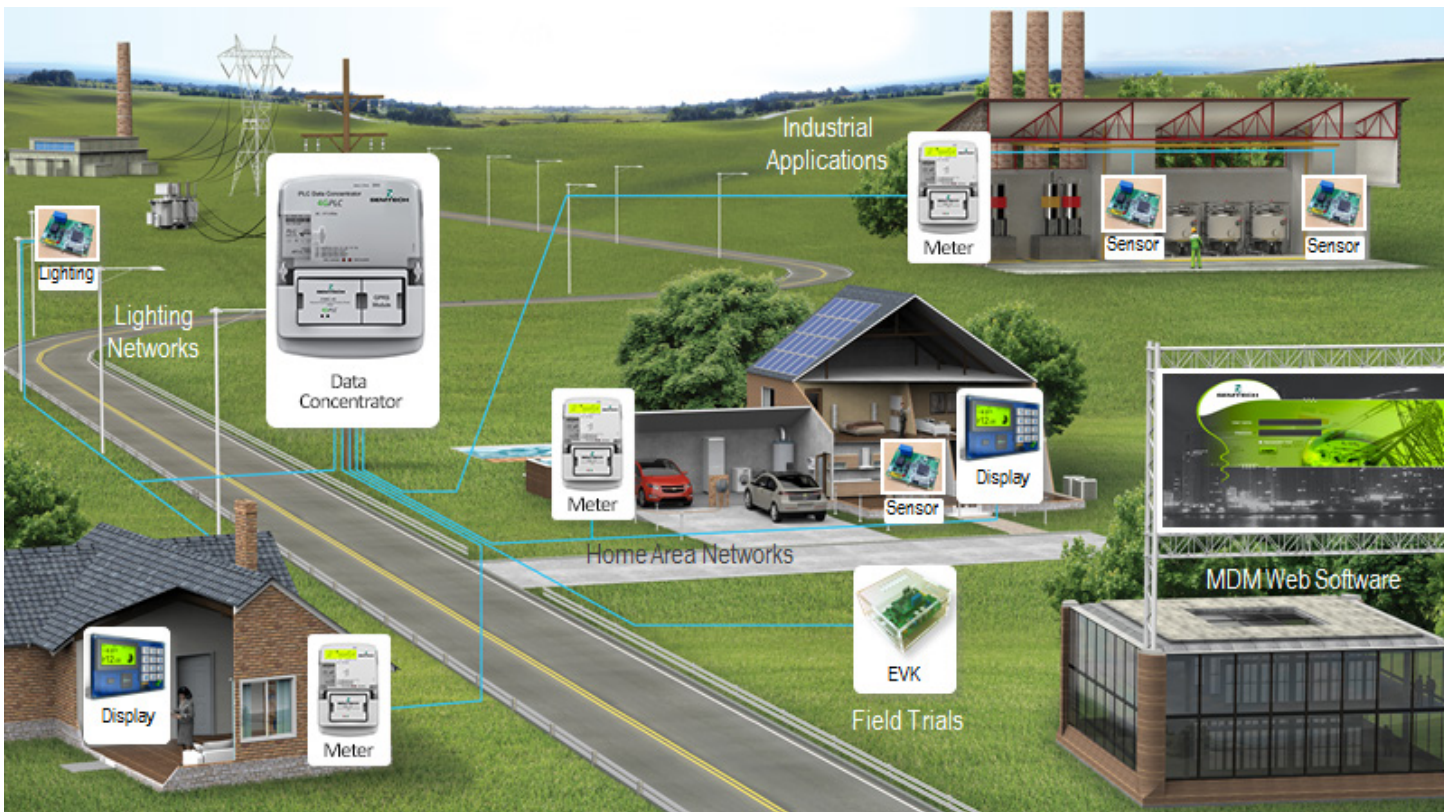
On a broad level, most, if not all, of our PLC SoC applications are tied to Active Energy Management. One of the applications for PLC technology is Advanced Metering Infrastructure (AMI), which allows utility companies to send and retrieve information from residential and industrial meters using power lines that connect directly to their servers. AMI also includes In Home Displays (IHD) and Gateways with which consumers and utility companies can use to control and manage residential energy usage. PLC usage also extends to other applications that use electricity as a source of power and require some (or substantial) intelligence for control and monitoring.



Home Area Network (HAN)



Street Lighting Network



PLC Ecosystem - Advanced Metering Infrastructure (AMI)



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