

HD-PLC™ IC SC1320A

Evolving our society to Society 5.0 through stable communication



Overview

This IC is the latest solution for IoT communication and is embedded with the 4th generation of HD-PLC™ core and can provide a secure communication solution for IoT devices over communication cables and power lines. It creates more freedom for innovations while transmitting more data from and to Urban areas, Home, City and Factory environments for further evolving our society to Society 5.0.

Features

- HD-PLC™ core conform to IEEE 1901-2020 is optimized for IoT devices.
- Easy applicable for IoT devices since TCP/IP software stack is included and general interfaces such as UART/SPI are implemented.
- Support is also available for protocols like BACnet, LonWorks for the industrial applications (including building management).
- Adoption of advanced process leads to a compact package size.
- With a compact power circuit design the PCB design and BOM costs can be optimized.
- Stable powerline communication is achieved by the combination of high-quality analog and noise reduction techniques.



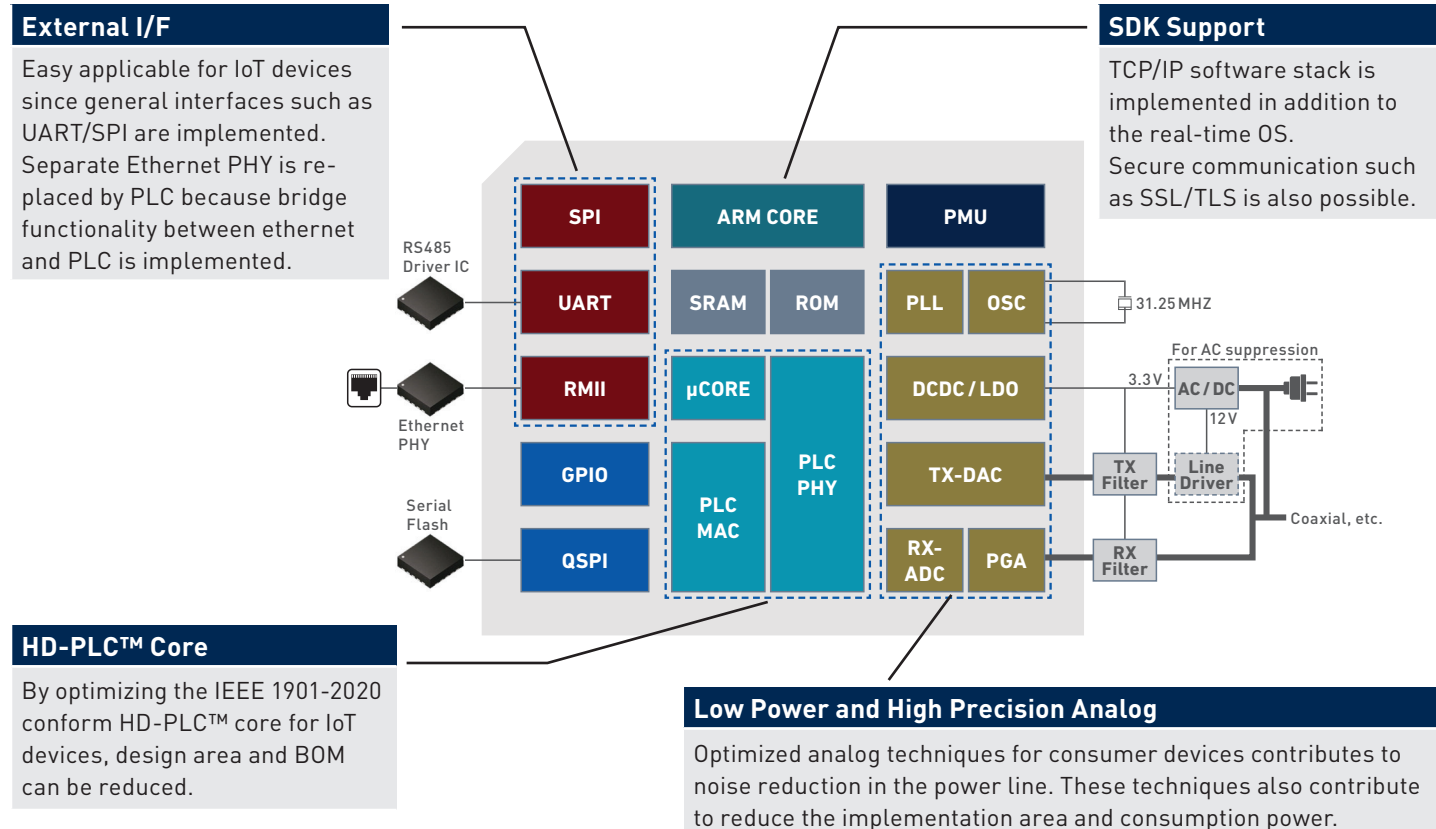
* HD-PLC is a trademark or registered trademark of Panasonic Holdings Corporation in Japan and other countries.

Specifications

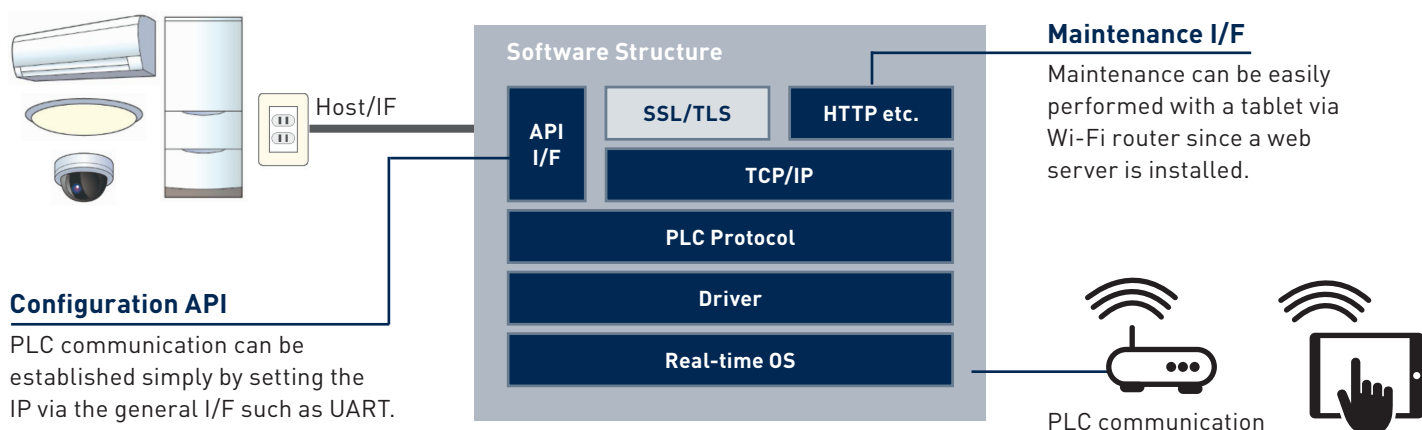
Item	Specification	Item	Specification
CPU	Arm® Cortex®-M series	Supply Voltage	3.3V unity
System Clock	125MHz	Package	QFP
Flash	Quad-SPI	Temperature	-40°C to 85°C
I/F	SPI/UART/RMII	Power	200mW (Typ)

* „Arm“ and „Cortex“ are trademarks or registered trademarks of Arm Limited (or its subsidiaries) in the EU and/or elsewhere.

System Structure



Solution



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