

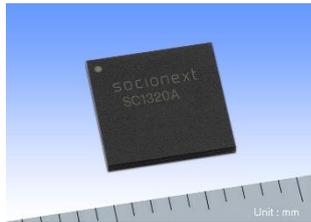
# Socionext Announces Shipment of the World's First HD-PLC LSI Compliant with IEEE 1901-2020

## State-of-the-art, Compact, Low Power Device Supports Existing and New IoT Communication Applications

**Yokohama, May 31, 2022---** Socionext Inc. today announced sample shipments of the SC1320A HD-PLC communication LSI starting in June 2022 and plans to start volume production in the third quarter of 2022. This LSI is the world's first semiconductor design using an IEEE 1901-2020 compliant IP core licensed by Panasonic Holdings Corporation.

Socionext will present the SC1320A LSI and evaluation kit at the HD-PLC Alliance booth at the JECA Fair 2022 held at Tokyo Big Sight from June 1 – 3, 2022.

"SC1320A" Product Information: <https://www.socionext.com/en/products/assp/HD-PLC/>



[SC1320A LSI Sample view \(Click to enlarge\)](#)



[Evaluation Kit example \(Click to enlarge\)](#)

### HD-PLC Conforms to Standard IEEE 1901 -2020

The High-Definition Power Line Communication (HD-PLC) is a wired communication technology that supports communication networks by superimposing high-frequency signals (2 ~ 28 MHz) over existing power lines, telephone lines, twisted-pair, coaxial cables, and other wire types. In 2021, the 4th generation of HD-PLC was published in the IEEE 1901 -2020 standard specifies 1/2 and 1/4 transmission modes to enable longer distance communications. It is capable of facilitating a communication or network up to a reach of 10 km when combined with multi-hop technology. With these new features, this advanced HD-PLC solution is expected to become more widely adopted in many different fields and new application areas.

### SC1320A Features and Specifications

The SC1320A is the world's first LSI that adopts the 4th generation HD-PLC (\*1) with an IP core that conforms to the IEEE 1901-2020 standard licensed by Panasonic Holdings Corporation.

Socionext's strength in advanced signal processing analog frontend and circuit design technology enables implementation of the HD-PLC4 specification and features on the SC1320A while maintaining very low power consumption (200 mW). It uses only a single 3.3V power supply and comes in a compact 7 x 7 mm package. This solution has built-in I/Os such as SPI/UART and Ethernet MAC (RMII), allowing SC1320A to be easily embedded into home appliances, HEMS, and IoT products.



**About Socionext Inc.**

Socionext Inc. is a global SoC (System-on-Chip) supplier and a pioneer of a unique “Solution SoC” business model through decades of industry experience and expertise. Socionext contributes to global innovation in advanced technologies including automotive, data center, networking, and smart devices. As a trusted silicon partner, Socionext delivers superior features, performance, and quality that differentiate its customers’ products and services from their competition.

Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its development and sales activities. For more information, visit <https://www.socionext.com/en/>.

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