

Enables short-range wireless communication

Wi-SUN-Compatible Module

BP35A1

ROHM
SEMICONDUCTOR

Class-leading reception sensitivity

Wi-SUN firmware included

- **Compatible with international wireless communication standards**
- **Wi-SUN compliant**
(Wireless Smart Utility Network)



■ Industry-leading receiver sensitivity

-103dBm (100kbps Typ., BER<0.1%)
Easy-to-connect specified low power module provides high communication quality.

■ Built-in antenna eliminates the need for high-frequency designs

■ MAC address included

■ Integrated Wi-SUN firmware

32bit high power MCU with Wi-SUN-compatible firmware ideal for HEMS applications.

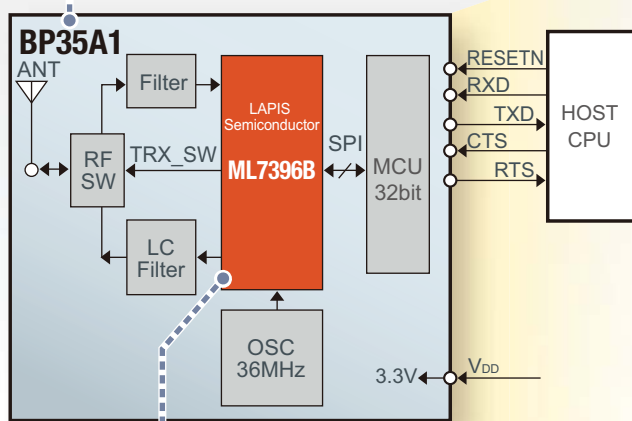
■ Japan Radio Law certified

■ Pre-adjusted transmitting power

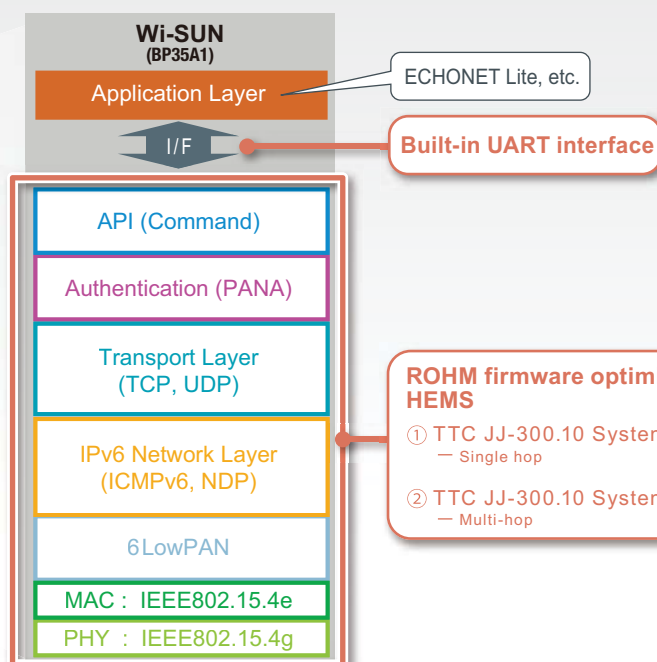


High-performance MCU enables compatibility with a variety of HEMS equipment (via the user-programmable region)

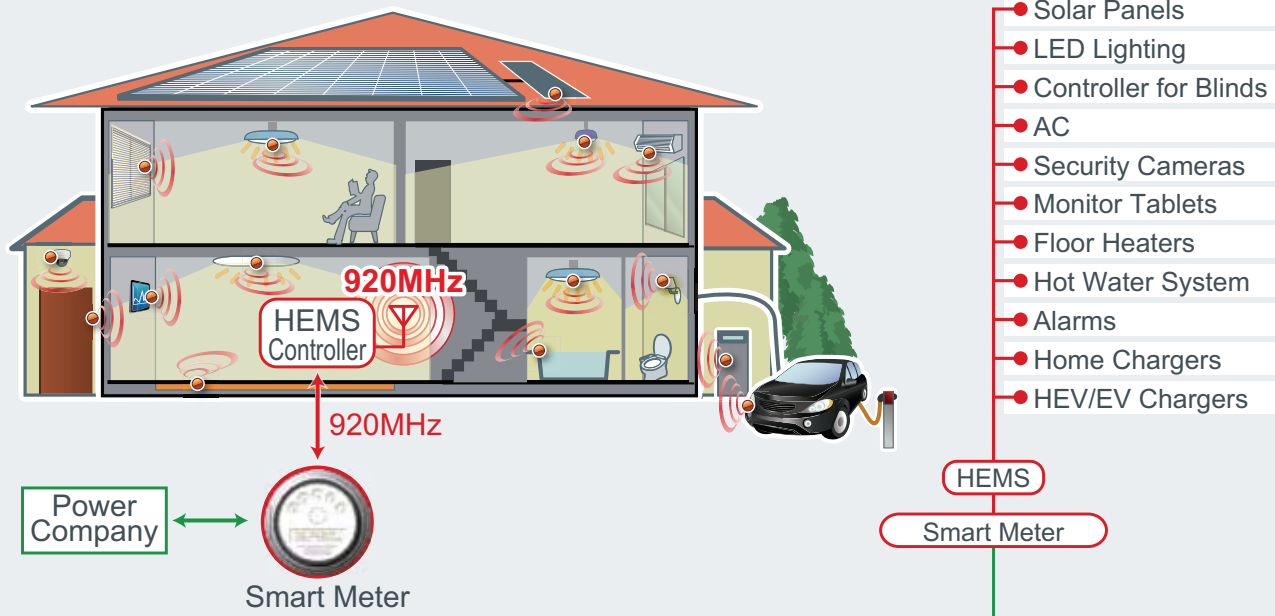
All-in-one design with built-in antenna/
RF/MCU simplify implementation



LAPIS Semiconductor LSI provides class-leading reception sensitivity for superior communication quality



Ideal for communication not only between HEMS and Wi-SUN recommended smart meters but with HEMS-compatible devices as well.



Lineup

Specified Low Power Wireless Module

Part No.	Supply Voltage (V)	Operating Temp. (°C)	Host CPU Interface	Compatible Standards	Wi-SUN Firmware Support	Antenna Diversity Compatibility	Built-in Antenna	Radio Law Certified	Integrated System IC	External Dimensions (mm)	Package*
BP35A1	2.7 to 3.6 (Single)	-20 to +80	• UART (115,200bps)	• ARIB STD-T108 • IEEE802.15.4g/e	✓	—	✓	✓	ML7396B (LAPIS Semiconductor)	22.0×33.5×4.0	Connector Type 0.4mm pitch(20pin)

Wireless LAN Modules

Part No.	Supply Voltage (V)	Operating Temp. (°C)	Host CPU Interface	Compatible Standards	Antenna Diversity Compatibility	Built-in Antenna	Internal WPS, TCP/IP	Integrated Flash Memory	Radio Law Certified	Integrated System IC	External Dimensions (mm)	Package*
BP3580	3.1 to 3.5 (Single)	-40 to +85	• USB • SDIO • UART	• IEEE802.11b/g/n (Ch1 to Ch13) • IEEE802.11i (Security)	✓	—	✓	—	✓	BU1805GU	17.0×17.0×2.3	Surface Mount Type 1.27mm pitch (48pin)
BP3591	3.1 to 3.5 (Single)	-40 to +85	• USB • SDIO • UART	• IEEE802.11b/g/n (Ch1 to Ch13) • IEEE802.11i (Security)	—	✓	✓	—	✓	BU1805GU	24.0×33.1×4.7	Connector Type 0.5mm pitch (34pin)
BP3595	3.1 to 3.5 (Single)	-40 to +85	• USB • SDIO • UART	• IEEE802.11b/g/n (Ch1 to Ch13) • IEEE802.11i (Security)	—	✓	✓	—	✓	BU1805GU	15.3×27.6×2.6	Connector Type 0.4mm pitch (30pin)
BP3599	3.1 to 3.5 (Single)	-40 to +85	• USB • SDIO • UART	• Firmware included	—	✓	✓	✓	✓	BU1805GU	24.0×33.1×4.7	Connector Type 0.5mm pitch (34pin)

*All packages are original power module designs

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