



# Long Range • Low Power Consumption • Ideal for HEMS

## Specified Low Power Wireless Module

### Compatible with Wi-SUN (Wireless Smart Utility Network)

BP35A1

#### Features

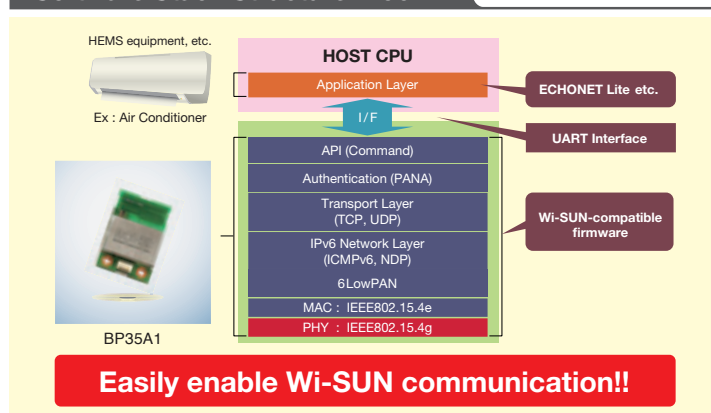
- Easily enable Wi-SUN communication in a range of applications and devices
- LAPIS Semiconductor IC utilized for industry-leading receiver sensitivity
- ARIB STD-T108 compliant, Radio Law certified\* \* Only in Japan
- 920MHz band enables long-range wireless communication

#### Applications

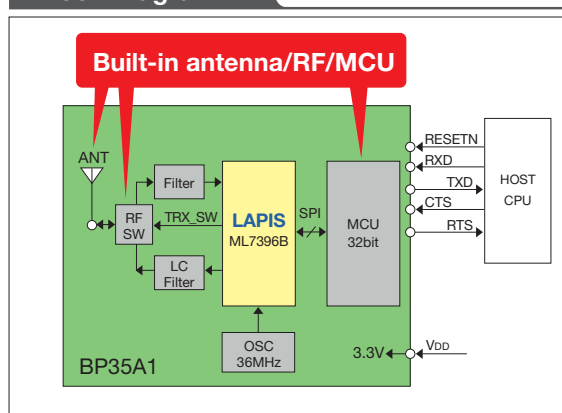
- HEMS, BEMS
- Smart meters
- Home appliances
- Industrial equipment
- Routers



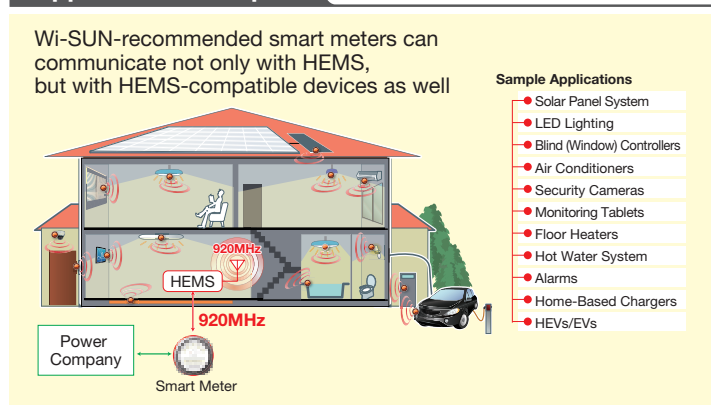
#### Software Stack Structure Block



#### Block Diagram



#### Application Example



#### Specifications

Compliance Specifications	ARIB STD-T108 standard
Antenna	Pattern antenna (internal)
Frequency Range	922.5 to 927.9 MHz
Modulation Method	GFSK
Modulation Speed	100kbps
Transmission Power	20mW
Receiving Sensitivity	-103dBm (@100kbps, m=1 BER<0.1%) (at antenna connector pin)
HOST I/F	UART(115,200bps)
Supply Voltage	2.7V to 3.6V (Single power supply)
Current Consumption	53mA (20mW output during transmission) 32mA (during reception @100kbps), 250uA (sleep mode)
Operating Temperature	-20°C to +80°C
Package Size	22mm × 33.5mm × 3.9mm