Featured Products











Contributes to compact, connectorless, water-and dust-proof designs

13.56MHz (NFC) Wireless Charger Modules

BP3621 (Transmission Module), BP3622 (Power Receiver Module)

- Easily adds wireless charging capability
 Capable of supplying up to 200mW at 10mm (face-to-face) distance
- 13.56MHz power supply method facilitates set design
 In addition to a smaller circuit scale with built-in antenna, the modules utilize a backside full flat structure
- Integrated communication functions
 Supports bidirectional communication without adding a dedicated chip or antenna

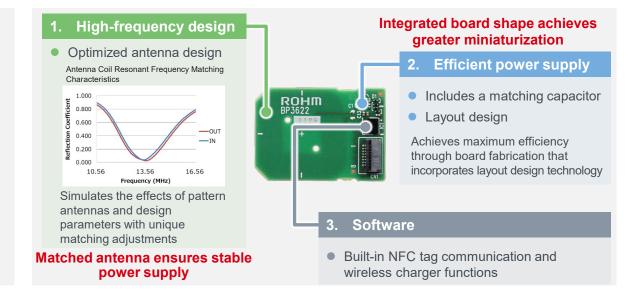
BP3621 (Transmission Module) BP3622 (Receiver Module) Top Bottom 35.0mm x 26.0mm x 1.5mm 24.0mm x 17.0mm x 1.5mm

Comparison with Existing Wireless Charger

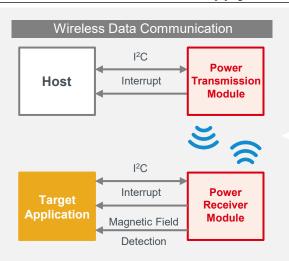
	Qi	13.56MHz Wireless Charger		
Frequency (f0)	200kHz	13.56MHz		
Inductance (L)	20μH	1μΗ		
Power	1W or more	less than 1W		
Antenna size	Ф20 to 50mm	Several mm2 Cube antenna		

Reduces area by more than 80% vs Qi

■ Core Technologies of ROHM's Compact Wireless Charger Modules



■ 13.56MHz Enables Power Supply and Communication with a Single Antenna

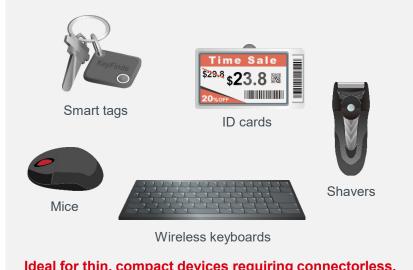


- Bluetooth pairing
- Website navigation
- Application-specific startup
- Reading device-specific and personal authentication information
- Downloading firmware
- Secure transmission of sensor data
- Transferring battery output voltage values
- Secure rewriting of device-specific / personal authentication/manufacturing information

Various types of application communication possible without additional antennas

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Applications



Ideal for thin, compact devices requiring connectorless, water-/dust-proof performance

Application Notes



https://fscdn.rohm.com/en/products/databook/applinote/module/wireless /bp3621 bp3622 an-e.pdf



Details on terminals, power supply, and communication functions along with usage and installation methods allow users to immediately verify operation

■ Product Lineup

	Part No.	Module Type	Supply Voltage (V)	Output Power (W)	Interface	size (mm)	Weight
Ne	BP3621 Web	Power Transmission Module	4.5 to 5.5	_	8pin 5mm pitch flex connector	35.0×26.0×1.5	0.80
Ne	BP3622 Web	Receiver Module	_	200 (d=10.0mm(Typ))		24.0×17.0×1.5	0.38



What's appealing about this demo unit is that it adds functionality via contact-free operations, when used with devices handled by the general public

Watch a product Quick Link demonstration showing the wireless power supply and communication capabilities of ROHM's modules

https://www.youtube.com/watch?v=eyaBXbI40zg





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