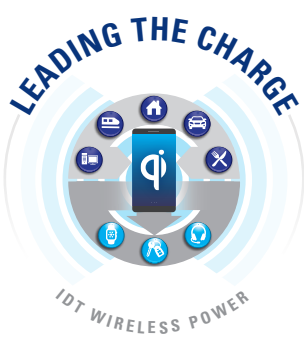
# THE DATASHEET OF

# P9025AC-RNBGI8

# The Leader in Wireless Power

## Leverage IDT's leading-edge technology in your wireless power design with a portfolio that delivers the industry's best flexible SoC architecture, efficiency and hardware/algorithm implementation.

IDT's highly integrated transmitter ICs are designed for use in fixed and portable charging bases, while the ultra-compact, low-power receiver ICs are targeted at portable devices and accessories. With variations in input voltages, wireless power standards support, and coil types/numbers, IDT's wireless power solutions are suitable for a wide range of applications spanning virtually all markets and industries. In addition, some wireless charger ICs can provide additional benefits for increased wattage and control when paired together.




Because implementing wireless charging technology is complex, IDT complements its solutions with reference designs, support tools, and design-in documentation – streamlining the design-in process as much as possible.

IDT is a member of the Wireless Power Consortium (WPC) and develops wireless power ICs and reference design certified to the Qi standard.

### IDT ADVANTAGES

- Industry first, flexible ARM® Cortex®-M0-based SoC architecture
- Industry-leading efficiency
- Unique and proven hardware / algorithm implementation
- Widest portfolio of wireless power Tx and Rx ICs distinct advantages in:
  - Integration
  - Ease-of-use
  - Power efficiency
  - Flexibility
- Qi-compatible wireless charging ICs
- Design support
  - Reference design kits enable fast prototyping and time-to-market
  - Extensive documentation library
    - Application notes
    - Design guides
    - User manuals
  - Online support tools

# High-Efficiency, Turnkey Reference Designs for Fast Prototyping

IDT's Qi-certified wireless power Tx and Rx reference kits include easy-to-use reference boards and comprehensive support collateral to significantly ease design and minimize time-to-market. An associated layout module enables copy and paste to a system board, while an optimized and fully-tested BOM takes the guesswork out of component selection.

## Reference Design Kit for 5W Applications

### KEY APPLICATIONS

- Charging accessories
- Sport cameras
- Medical devices
- Portable mobile speakers
- Phone Tx infrastructure

| Part Number | Product Description | Coils | WPC Qi Certified |
|---|---|---|---|
| P9225-R-EVK | Receiver | 5W | 1.2 |
| P9038-R-EVK | Transmitter | A11 | 1.2 |

## Reference Design Kit for 15W Applications

### KEY APPLICATIONS

- Tablets
- Point-of-sale scanners
- Desktop printers
- Power banks
- Portable speakers
- Charging accessories

| Part Number | Product Description | Coils | WPC Qi Certified |
|---|---|---|---|
| P9221-R-EVK | Receiver | 15W | 1.2 |
| P9242-R-EVK | Transmitter | MP-A2 | 1.2 |

To request samples, download documentation or learn more visit: **idt.com/wirelesspower**

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