

P9025AC: 5W, Qi-Compliant Wireless Power Receiver



- Compact, single-chip solution
- High-efficiency 5.3V @ 1V output

BENEFITS AND FEATURES

- Integrated full-bridge synchronous rectifier and LDO minimizes PCB area and BOM
- Guaranteed 5W output power
- WPC-1.1.2 compliant
- Programmable FOD setting via external resistor simplifies tuning process
- 5 x 5 mm 32-VFQFPN package

To request samples, download documentation, or learn more, visit: idt.com/P9025AC

The P9025AC is a compact, Qi-compliant wireless power receiver ideal for a myriad of portable applications looking to take advantage of wireless charging technology. The device uses an integrated synchronous full-bridge rectifier and LDO output stage to convert the incoming wireless power signal into a regulated 5.3V / 1A output that can be used to charge a battery or power a system directly. The P9025AC operation automatically initiates WPC AC modulation communication protocols with optimal efficiency.

The device includes control circuitry to transmit WPC-compliant message packets to the base station. It uses minimal external components to reduce overall solution area and costs. In addition, the P9025AC employs advanced Foreign Object Detection (FOD) techniques to safeguard the system.

