



THE VALKYRIE

15W MEDIUM POWER WIRELESS CHARGING SOLUTION

SPK-4102-1C10C

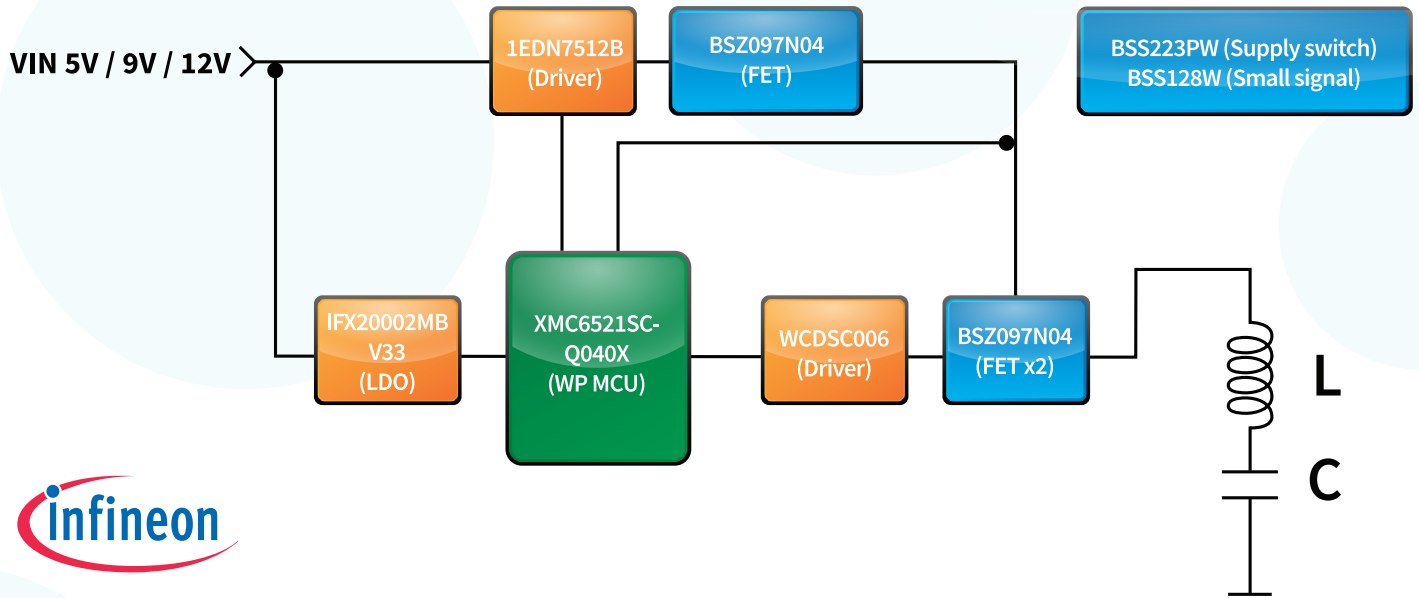
FEATURES

- WPC Qi v1.2.4 EPP certified
- Supports all fast charge smartphones
- Fixed frequency architecture
- Improved accuracy Foreign Object Detection (FOD)
- Uses QC2.0 (for 10W) or QC3.0 (for 15W) power adaptors
- Standard single coil (WPC type MP-A11)
- 15W charging without exotic thermal management
- Supports future products and standards with a firmware upgrade
- Charger is backward compatible with low-power and legacy devices
- Supports custom coil designs
- Applications: smartphone charging, medical instruments, tablets, handheld terminals, digital cameras, handheld games



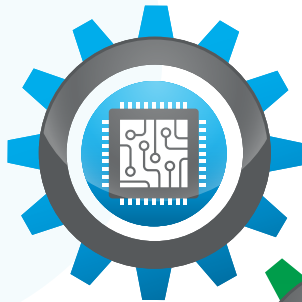
**spark
connected**
Powering the world, wirelessly

BLOCK DIAGRAM



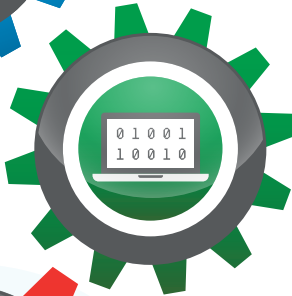
PARTNERING WITH SPARK CONNECTED

COMPLETE END-TO-END SYSTEM SOLUTIONS



SYSTEM HARDWARE DESIGNS

- Customer UX requirements
- System level modeling & simulations
- Hardware schematic design
- PCB layout
- Coil magnetic flux modeling & simulations
- Coil and Antenna designs



APPLICATION SOFTWARE DESIGNS

- Intelligent Control Systems
- API, Algorithm & Artificial Intelligence
- Thermal and emissions modeling
- Validation & test using prototype hardware
- Data Architecture & Code Release
- Maintenance & configuration control



WIRELESS POWER SYSTEM INTEGRATION



- Support customers integrate wireless charging in their end-product
- Qi pre-compliance testing
- Support customer during final Qi certification process
- Support partners during the regulatory approval process