



**THE DATASHEET OF
REF10WTXQI4102TOB01**






Quick start guide

Reference design – 15 W Qi transmitter (Tx) for charging smartphones

REF_10WTX_QI_4102

Features

- › Up to 15 W wireless power transfer
- › WPC Qi v1.2.4 certified 
- › Fixed frequency power transfer
- › Supports fast charging for Samsung and Apple phones
- › MP-A11 coil configuration
- › V_{IN} range: 9-12 V
- › 83% peak efficiency
- › To be operated with Q.C. 3.0 adapter
- › Improved accuracy of foreign object detection (FOD)
- › Cost-optimized architecture with low BOM count
- › Two LED indicators for power transfer and fault conditions
- › EMC, CISPR 22 compliant with no EMI choke
- › 25°C to +85°C temperature range

Key Infineon products

- › Wireless power controller XMC™-SC (XMC6521SC-Q040X)
- › OptiMOS™ 40 V (BSZ097N04LS)
- › EiceDRIVER™ 1EDN (1EDN7512B)
- › Wireless charging driver IC (WCDSC006)
- › Monolithically integrated low-drop voltage regulator (IFX20002MB V33)
- › OptiMOS™ n-channel MOSFET (BSS138WH)

Operation

- › Download expert documentation
- › Remove REF_10WTX_QI_4102 from ESD bag
- › Select appropriate AC plug and attach to DC power supply
- › Plug DC power supply into REF_10WTX_QI_4102 and into AC outlet
- › Place smartphone on charging surface
- › Download GUI via partner Spark Connected:
www.sparkconnected.com (optional)
- › Install and start GUI (optional)
- › Plug USB serial programming cable into computer
and REF_10WTX_QI_4102 (optional)



Please note: The board supports an input voltage range of 9-12 V and is compatible with QC 2.0/3.0 adapters. The 5 V implementation is only available on demand.

For more information visit:

www.infineon.com/wirelesscharging

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View REF10WTXQI4102TOBO1 on WIN SOURCE](#)
-  [Infineon Technologies](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management