DB2605 EV CHARGING CONTROLLER

Powerful MCU | Enhanced Security | V2G

HPGP and MCU

– Qualcomm QCA7005
  HPGP Chipset
  ISO 15118-3 compliant

– Qualcomm MCU
  32bit, 320MHz
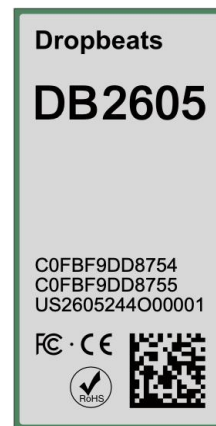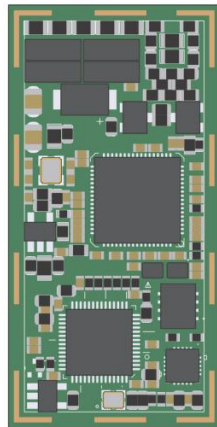 4MB RAM, 4MB Flash

Enhanced Security

Dedicated Hardware Security Module (HSM)

– Common Criteria EAL 4+ certified

– FIPS 140-2 certified

– Secure flash user memory up to 50kB

– NIST ECC curves (up to 521 bit key length)

– Supports V2G applications

Compliance

Complete Firmware Features

– Basic charging (IEC 61851)

– High-level AC charging with EIM and PnC (ISO 15118-2/20)

– Bidirectional AC charging with security (ISO 15118-20)

DB2605

The DB2605 adds core ISO 15118-2/20 functionalities to AC chargers, and provides high-level communication for AC chargers to interact with CCS-compliant Electric Vehicles.

The DB2605 is equipped with a Qualcomm QCA7005 and a powerful Qualcomm low-power 32bit MCU running a Real Time Operating System with a complete software stack that supports ISO 15118-2/20 and IEC 61851-1.

Applications

ISO15118-2/20 compliant AC Charger hardware architecture using DB2605 EV Charging Controller.