AT-DB2306 EV CHARGING CONTROLLER

EVCC | Powerful MCU | Enhanced Security | V2G

HPGP &MCU

- Qualcomm's QCA7006 HPGP Chipset, ISO 15118-3 compliant

- NXP's latest 32bits 160MHz MCU with 1M Bytes RAM and 4M Bytes Flash

Enhanced Security

DB2306 provides a dedicated Hardware Security Engine (HSE).

- High-performance Security sub system

- AIS31 and FIPS 140-2 compliant

- Secured flash user memory up to 50k Bytes

- NIST ECC curves (up to 521 bits key length)

- supports V2G applications

ISO15118-2/20

Complete firmware features.

- Basic charging (IEC 61851)

- High-level charging with EIM &PnC (DIN70121, ISO15118-2/20)
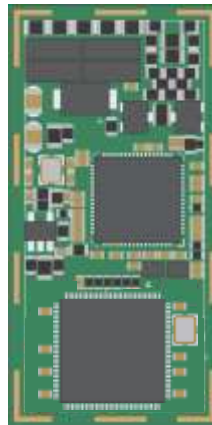
DB2306

DB2306 adds the core ISO 15118-2/20 functionalities to Electric Vehicle Communication Controller (EVCC) . It provides high-level communication functionalities for EV to interact with CCS compliant Electric Vehicle Supply Equipment (EVSE).

The controller is equipped with a Qualcomm QCA7006 and a NXP powerful, low-power 32bits MCU running a Real Time Operating System with a complete software stack supports ISO 15118-2/20 and IEC 61851.

Applications

VCU hardware architecture supporting ISO 15118-2/20 through integration of the DB2306 is shown below.