DB-EVCC-560, EV COMMUNICATION CONTROLLER

MCS | CCS | NACS | Security Engine | ISO-15118-20 | V2G

HPGP & T1S

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

- Microchip's LAN8651 10Base-T1S, ISO 15118-10 compliant Single Pair Ethernet MAC-PHY

MCU & Security Engine

- NXP latest S32K3 MCU with 512K Bytes RAM and 4M Bytes Flash

- High-performance Security sub system with dedicated core, firmware, memory.

- RSA 4096

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

Features

- CCS/NACS and MCS combo

- IEC 61851 (basic charging)

- ISO 15118-3/10

- DIN70121 & ISO 15118-2 DC

- ISO 15118-20 DC

- EIM and PnC

- H-bridge (optional) for CCS and MCS E-lockers

- High/Low-Side Switch

- Power supply: 12V and 24V

- Dimension L158xW162.2xH35.5mm

Available

- Q4, 2025

DB-EVCC-560

The DB-EVCC-560 sets a new benchmark for intelligent and interoperable EV charging. Designed for the next generation of E-mobility, it supports CCS1, CCS2, NACS, and MCS inlets, ensuring seamless compatibility with global and emerging megawatt charging standards.

Connecting to a charger is effortless — whether CCS, NACS, or MCS. Plug and Charge (PnC) provides automatic authentication on connection; alternatively, the vehicle can be authenticated via External Identification Means (EIM) using the chosen external method, enabling a secure charging session.

As a universal ECU for both charging and discharging, the DB-EVCC-560 forms a reliable communication bridge between the vehicle and charging infrastructure. Supporting Power Line Communication (PLC) and two-wire Ethernet (10Base-T1S), it delivers fast, stable, and efficient data exchange under all conditions. Fully compliant with DIN 70121, ISO 15118-2, and ISO 15118-20, it ensures long-term interoperability and supports advanced functions such as bidirectional power flow, V2G, and smart grid integration.

Compact, versatile, and ready for tomorrow's EV ecosystem, the DB-EVCC-560 enables OEMs and integrators to build smarter, safer, and globally compatible charging solutions with ease.

System Architecture

The DB-EVCC-560 is designed to be integrated into the vehicle with the following system architecture.