Connectivity Control Unit
Central communication unit

The basic building block for connected functions
The CCU manages the vehicle’s connections to the outside world. It enables innovative new services that significantly enhance driver and passenger safety and convenience.

Thanks to its connection to the vehicle network and its use of cellular network communications, like LTE, the Bosch CCU is highly flexible and can be used to enable a variety of communication and connectivity options.

Additional sensors, such as accelerometers and crash detectors, can be integrated or connected directly to the unit. Since it is equipped with a built-in 3G/4G cellular module, this central car communication unit can also provide passengers with a wireless hotspot.

The CCU was initially developed for commercial vehicles, to help fleet operators keep track of their vehicles and their technical condition. Bosch is now also making this state-of-the-art technology available for passenger cars and even powered two-wheelers.

Reliable connectivity is a prerequisite for intelligent transport systems (ITS) that will provide the safety, efficiency and mobility advancements of the future through vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications. The CCU is the basic building block in enabling these functions.

Features:
- In-vehicle communication: I/O, CAN, Wi-Fi, PSI5
- External communication: mobile phone, router, internet
- Locating: GPS, COMPASS, GLONASS, GALILEO, QZSS
- Multi-provider support (mobile phone services)
- Remote diagnosis of vehicle electronics, e.g. for remote workshop support
- Data and music downloads
**Emergency call:** In the event of an accident, the CCU automatically connects the driver to the emergency services control center, which then sends immediate help to the crash site. eCall will summon help even if the driver is unconscious or unable to speak. The CCU is equipped with an integrated backup battery, speaker and microphone, ensuring it is fully functional for eCall even if the vehicle’s other systems are damaged.

**Fleet management:** To help operators of large or small fleets keep track of their vehicles, the CCU monitors the technical condition of the individual vehicles and records their usage profiles. Based on the data provided, maintenance and repairs can be carried out as required to make sure that all the vehicles on the road are always in the best possible technical condition. This ensures optimum profitability and efficiency for vehicle use and is good for the environment as well.

**Secure me:** The exchange of data through vehicle-to-vehicle communication technology generates an awareness of the motorcycle that ensures drivers of other vehicles know of the motorcycle’s presence without actually even seeing it directly. Using various sensor information and cloud data, the unit continuously computes the state of the motorcycle’s stability and, if necessary, triggers appropriate action. Other features, such as the electronic horizon and SpeedAssist, make your tour a safe and comfortable one, and track telemetry monitoring makes motorcycling even more fun.