

The NFCER is used to activate an external near-field pick-up device (a near-field card) and demodulates and decodes the signal super-imposed on the field generated by the NFCER. Up to 8 unique pick-up devices can be authorized by the NFCER.

The NFCER generates a 20 μ s, 13.56MHz field to rapidly detect the presence of an NFC pick-up device. If a device is detected, the NFCER generates a 13.56MHz field of a longer duration (~20ms). This field inductively charges the pick-up device, where it changes the impedance in the field generated by the NFCER, putting a super-imposed ASK signal on the field which is demodulated by the NFCER. The communication distance is ~ 5cm.

The NFCER communicates with another NFC devices mounted in the vehicle via a private 2Mbit HS-CANFD bus.