



The card and reader start to transmit data as soon as the card enters the reader RF antenna field, thus enabling the card holder to carry out transactions quickly and conveniently, through an intentional action.

The RF communication interface transfers data between the Gemalto Mifare card and reader at a baud rate of 106k baud. This high data transfer rate enables ticketing transactions to be handled in 0,1 to 0,5 second. Therefore, transactions can be carried out without cardholders having to stop in front of the reader or remove the Gemalto Mifare card from their wallets.

Mutual challenge and response authentication, data ciphering, and message authentication protect the whole system from the fraud. These checks are implemented in a fraction of the overall transaction time. Furthermore, each Gemalto Mifare has a unique hard-written serial number which guarantees that each card can be individually selected.