



# MIFARE Classic® EV1 1K – 4K

## MF1S50YYX\_V1

### Not Recommended for New Designs

This product is not recommended for new designs. Instead, we recommend to use our [MIFARE® DESFire® Light IC](#).

Last Updated: Dec 23, 2025

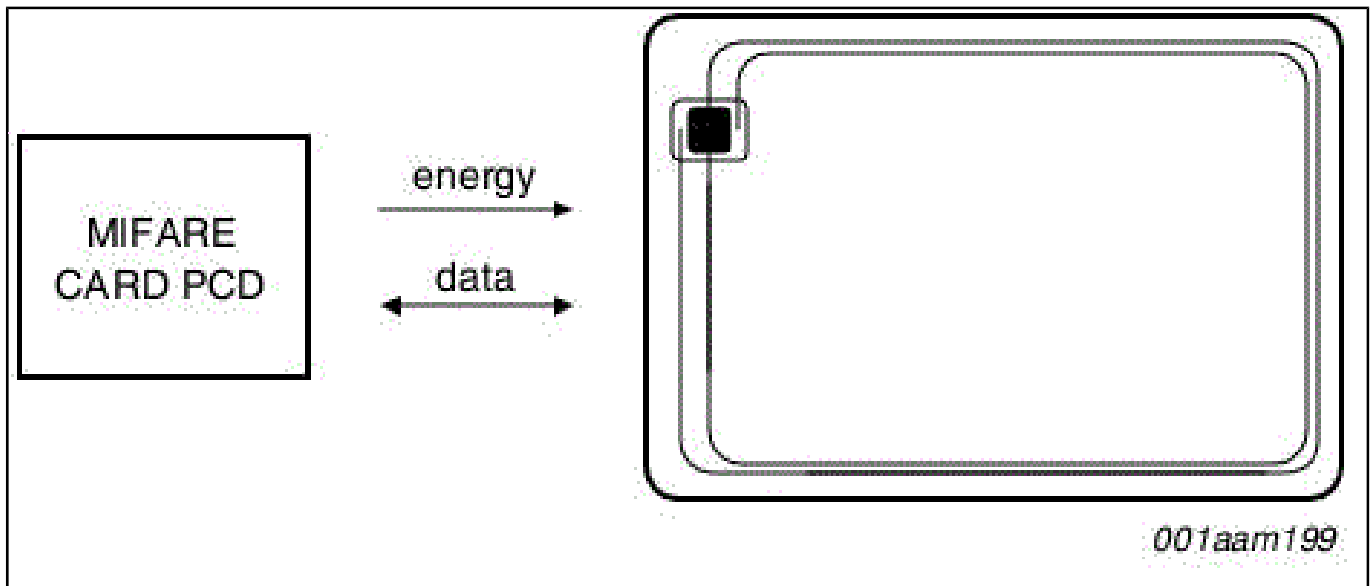
NXP® has developed the MIFARE® MF1ICS50 to be used in a contactless smart card according to ISO/IEC 14443 Type-A.

The MIFARE MF1ICS50 IC is used in applications like public transport ticketing where major cities have adopted MIFARE as their e-ticketing solution of choice.

An intelligent anti-collision function allows operating more than one card in the field simultaneously. The anti-collision algorithm selects each card individually and ensures that the execution of a transaction with a selected card is performed correctly without data corruption resulting from other cards in the field.

The MF1ICS50 is designed for simple integration and user convenience. Which could allow complete ticketing transactions to be handled in less than 100 ms. Thus, the MF1ICS50 card user is not forced to stop at the reader leading to high throughput at gates and reduced boarding times onto buses. The MIFARE product-based card may also remain in the wallet during the transaction, even if there are coins in it.

## MF1S70YYX\_V1\_BD Block Diagram



View additional information for [MIFARE Classic® EV1 1K - 4K](#).

**Note:** The information on this document is subject to change without notice.

---

### **www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2026 NXP B.V.