



MIFARE® DESFire® EV3: High-Security IC for Contactless Smart City Services

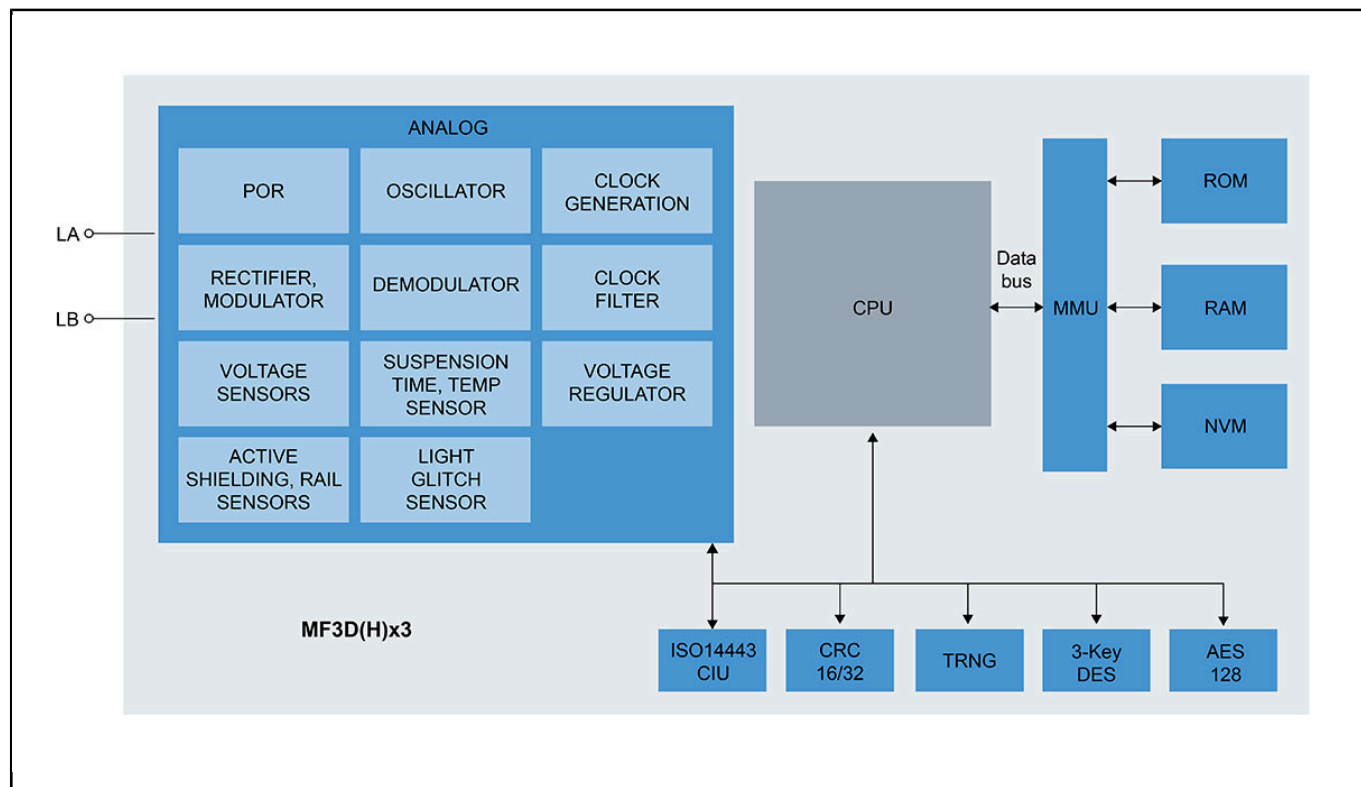
MF3DHx3

Last Updated: Dec 23, 2025

The features of the MIFARE DESFire EV3 IC reflect NXP's continued commitment to secure, connected and convenient contactless Smart City services. As part of the MIFARE DESFire family, the latest family member combines enhanced performance with a greater operating distance and improved transaction speed compared to its predecessors, including:

- IC hardware and software certification according to Common Criteria EAL 5+
- Broad choice of open crypto algorithms based on DES, 2K3DES, 3K3DES, or AES
- SUN message authentication for advanced data protection
- Transaction Timer to mitigate man-in-the-middle attacks
- Seamless integration of mobile services in combination with MIFARE 2GO

MIFARE DESFire EV3 block diagram Block Diagram



View additional information for [MIFARE® DESFire® EV3: High-Security IC for Contactless Smart City Services](#).

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. © 2025 NXP B.V.