



Your Partner in Growth

Elektronika Sales Pvt Ltd

Solution support

RFID / NFC - Smart Lock / POS Handheld

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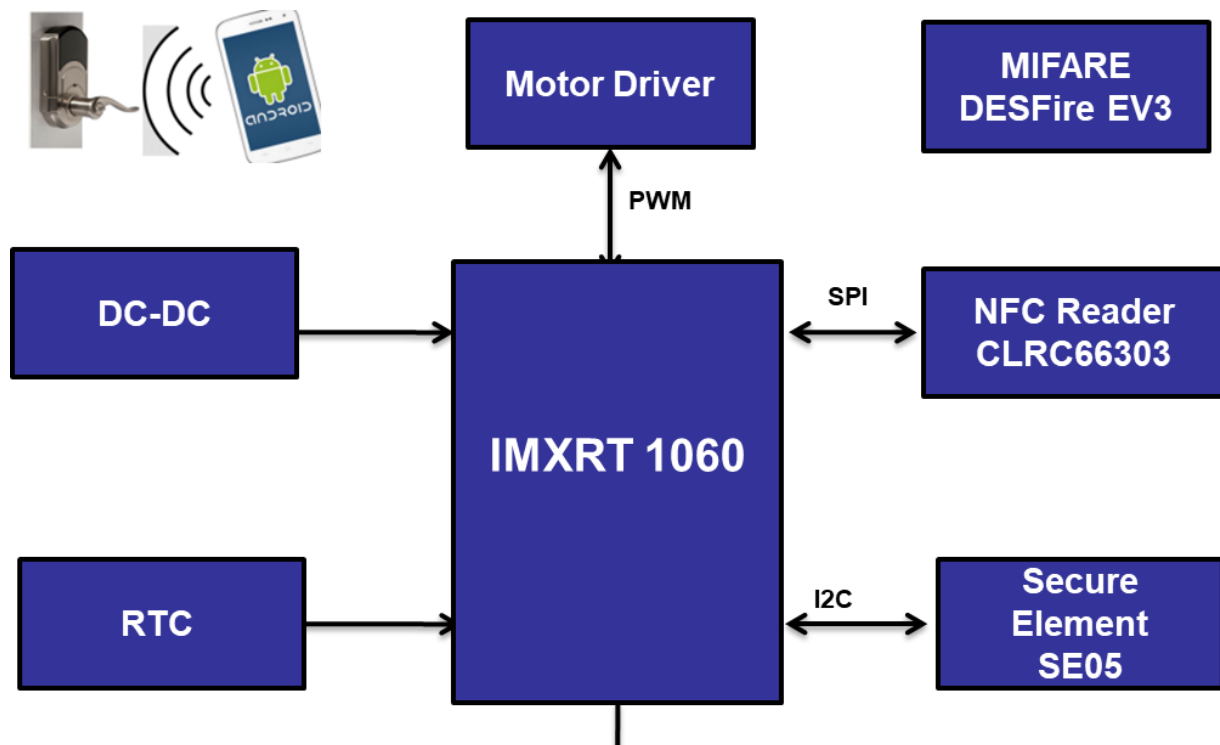
[Website](#) | [Line Card](#) | [Corporate Video](#)

Smart Lock

Physical and information security is a growing concern in the connected world. Smart locks are one piece of the puzzle in controlling access to both information and physical spaces.

A smart lock can be accessed via NFC contact or contactless technology and use Bluetooth® low energy or ultra-wide band to communicate with a user's smartphone, adding an additional level of security. Interaction with smart locks can range from something as simple as status LEDs to LCD panels with touchscreen control.

NXP provides a variety of connectivity options like low-power NFC, Bluetooth Low Energy or UWB. We also have analog components to complete the design of the smart lock.



i.MX RT1060 Crossover MCU



- Highest performing Arm Cortex-M7
- 3020 CoreMark/1284 DMIPS @ 600 MHz
- 1MB On-Chip SRAM - up to 512KB configurable as Tightly Coupled Memory (TCM)
- Real-time, low-latency response as low as 20 ns
- Industry's lowest dynamic power with an integrated DC-DC converter
- Low-power run modes at 24MHz
- Advanced multimedia for GUI and enhanced HMI
- 2D graphics acceleration engine
- Parallel camera sensor interface
- LCD display controller (up to WXGA 1366x768)
- 3x I2S for high-performance, multi-channel audio
- Extensive external memory interface options
- NAND, eMMC, QuadSPI NOR Flash, and Parallel NOR Flash
- Wireless connectivity interface for Wi-Fi®, Bluetooth®, Bluetooth Low Energy, ZigBee® and Thread™

RFID / NFC CLRC663

CLRC663 *plus* | product features

Key features

- 350mA maximum operating transmitter current with limiting value of 500mA
- Power supply voltage: 2.5 to 5.5V
- Extended operating temperature range: -40 to +105°C(*)
- 512byte FIFO buffer for highest transaction performance
- Flexible and efficient power saving modes including hard power down, standby and low-power card detection

Licenses and supported standards

- Includes NXP ISO/IEC14443-A, NXP MIFARE® and Innovatron ISO/IEC14443-B licenses
- Crypto 1 intellectual property licensing rights
- Hardware supports for MIFARE Classic encryption

Reader and Writer mode

- ISO/IEC 14443A/MIFARE, ISO/IEC 14443B, JIS X 6319-4 (comparable with FeliCa1 scheme)
- ISO/IEC 15693 (ICODE-SLIX/SLIX2, ICODE-DNA)
- ISO/IEC 18000-3 mode 3/ EPC Class-1 HF (ICODE-ILT)

CLRC663 target markets and applications



Access control

Gives access to physical door, public transport and allows logical access to a machine



Payment

Pay for goods or services with a single tap



Gaming

Toys can interact with other toys, video game accessories, bridging physical and virtual worlds



E-government applications

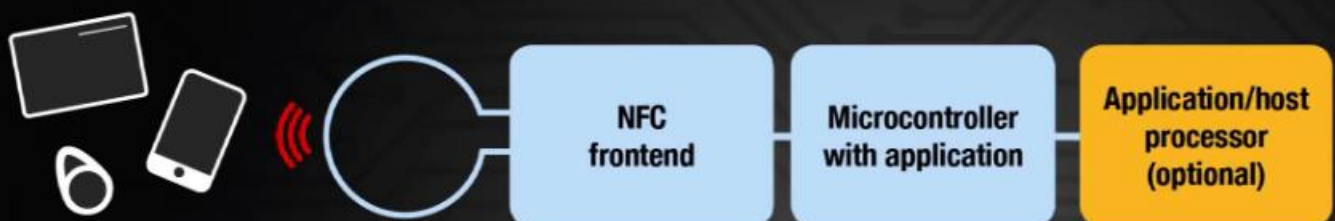
Passport and e-ID readers

- Access
- Audio & Video
- RFID Infrastructure
- Factory Automation
- Healthcare
- Home Appliances
- Home Entertainment
- Mobile Payment
- Secure Transaction



NFC FRONTEND

Cost effective



Memory size • Low power • Cost optimization

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Our value Added Services



TECHNICAL
SUPPORT



Vendor Managed
Inventory



- ❖ **World class warehouse facility / VMI & Logistic program**
Key OEM - Dedicated warehouse allocation
- ❖ **Complete regional resource**
Accessibility / Flexibility Support
- ❖ **Quote center - BOM Cost Optimization service**
- ❖ **USD & INR supply chain**
- ❖ **Design solution - FAE & Product team**



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