Product Brief

SLC 14 – 65nm Innovation for SIM Cards

32-bit SIM-card controller optimized for mobile communication applications

The demanding SIM card market requires high performance products, delivered in large volumes with a maximum of logistical flexibility and reliability at reasonable cost level.

Infineon's new 32-bit smart card generation SLC 14 offers all these advantages to its customers and therefore represents a perfect fit for high volume SIM card applications.

With its powerful 32-bit ARM® Cortex M0 core, the SLC 14 combines high performance computing power with the most flexible flash technology, featuring flash sizes from 256kByte to 480kByte with free partitioning between code and data.

The SLC 14 is the first family of smart card products in the market being produced in leading edge 65nm embedded flash technology. This allows a sustainable and high volume delivery capability over product lifetime.

Applications

- SIM
- UICC

Available packages

- Bare die
- FCOS MFC5.6 (2/3FF)
- FCOS MFC1.6 (2/3FF)
- FCOS MFC5.4 (4FF)

Main Features

- High Performance 32-bit CPU
- ARM® Cortex M0 based
- Internal clock frequency of up to 32MHz
- Up to 480kByte flash with free partitioning between code and data
- Up to 12kByte RAM
- Enhanced UART for handling serial interface in accordance with ISO/IEC 7816 part 3 supporting transmission protocols T=1 and T=0

www.infineon.com/SLC14

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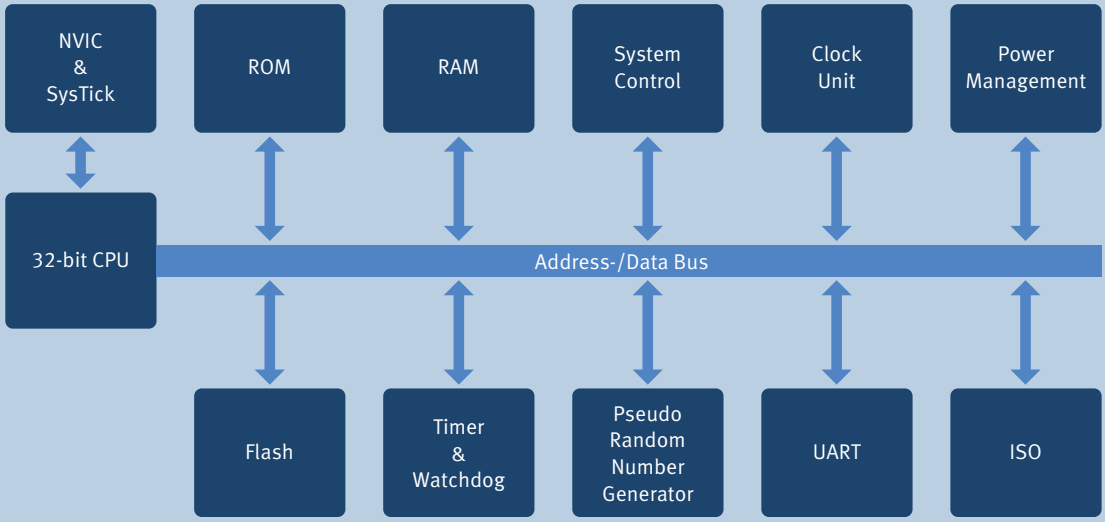
Block Diagram



Product Overview

Product	CPU	Embedded Flash [KB]	RAM Size [KB]	Interface
SLC 14MCO256	32-bit ARM® Cortex M0	256	10	ISO 7816
SLC 14MCO288	32-bit ARM® Cortex M0	288	10	ISO 7816
SLC 14MCO312	32-bit ARM® Cortex M0	312	10	ISO 7816
SLC 14MCO340	32-bit ARM® Cortex M0	340	10	ISO 7816
SLC 14MCO384	32-bit ARM® Cortex M0	384	12	ISO 7816
SLC 14MCO420	32-bit ARM® Cortex M0	420	12	ISO 7816
SLC 14MCO480	32-bit ARM® Cortex M0	480	12	ISO 7816

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