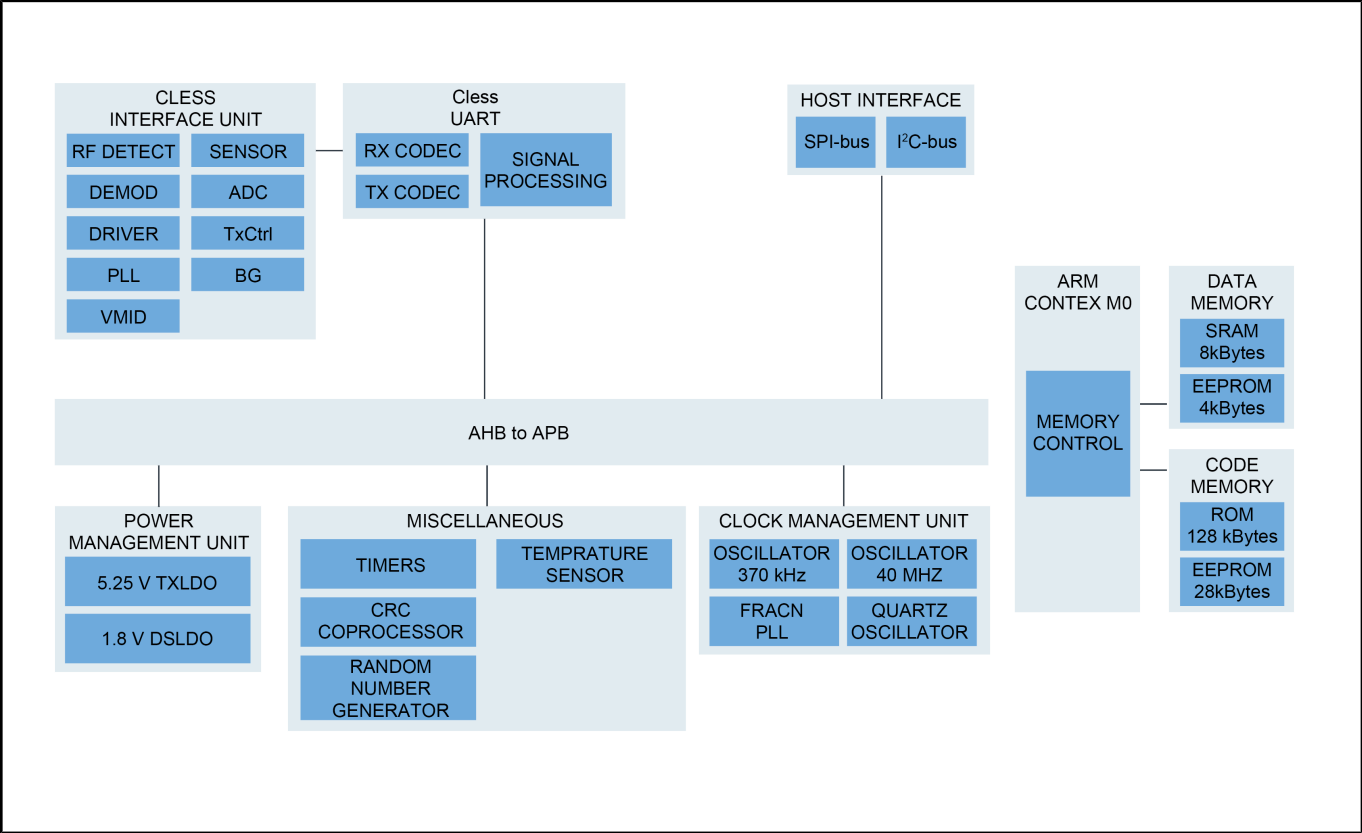# NFC Plug and Play Controller with Integrated Firmware and NCI Interface

PN7160

Last Updated: Dec 23, 2025

Designed for quick integration into a very wide range of systems, the PN7160 supports all NFC Forum modes, includes drivers for Android, Linux and Windows, and supports RTOS and no OS applications (PN7160 does not allow to achieve EMVCo compliancy. Use PN5180, PN5190 or PN7220 instead). Embedded NFC firmware reduces the need for host interactions and minimizes code size, making design-in that much easier. Available with an I²C or SPI interface, the PN7160 is compatible with popular MCUs, including LPC, Kinetis and i.MX. The PN7161 version adds support for Apple ECP.

PN7160 Block Diagram Block Diagram

CLESS INTERFACE UNIT	
RF DETECT	SENSOR
DEMOD	ADC
DRIVER	TxCtrl
PLL	BG
VMID	

Cless UART	
RX CODEC	SIGNAL PROCESSING
TX CODEC	

HOST INTERFACE	
SPI-bus	I²C-bus

ARM CONTEX M0

MEMORY CONTROL

DATA MEMORY
SRAM 8kBytes
EEPROM 4kBytes

CODE MEMORY
ROM 128 kBytes
EEPROM 28kBytes

AHB to APB

POWER MANAGEMENT UNIT
5.25 V TXLDO
1.8 V DSLDO

MISCELLANEOUS	
TIMERS	TEMPRATURE SENSOR
CRC COPROCESSOR	
RANDOM NUMBER GENERATOR	

CLOCK MANAGEMENT UNIT	
OSCILLATOR 370 kHz	OSCILLATOR 40 MHZ
FRACN PLL	QUARTZ OSCILLATOR

View additional information for NFC Plug and Play Controller with Integrated Firmware and NCI Interface.

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