

# RN00013

## Hardware release note for PN5190B1HN/C121 and PN5190B1EV/C121

Rev. 1.0 — 13 January 2022

Release note

## 1 Document purpose

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This document describes the tested hardware functionality and hardware limitations of the release PN5190B1HN/C121 and PN5190B1EV/C121.

The functionality and limitations of the available firmware versions, the product support material (for example, customer development board and support software) are described in separate documents.

## 2 Released versions

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### Hardware

The released hardware version is "PN5190B1", the first line of the BGA package is marked "5190E"

### Firmware

The PN5190B is initialized with the following firmware:

Firmware version v02.01

### Supporting hardware

PN5190B1 soldered on NXP customer development board.

### Supporting software

NXP NFC Reader Library

NXP Cockpit

VCOM

## 3 Supported functionality and known limitations

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### *Supported functionality*

The product PN5190B1 supports all functionality as specified in the data sheet.

### *Known limitations*

Please refer to document "**ES\_PN5190**, Errata information PN5190, (document number 6670xx, available in [NXP DocStore](#) )" for limitations under certain operating conditions.



## 4 Version history

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### Hardware version history

The previously released hardware version had been "B0".

### The following limitations apply to the Hardware "B0":

- VUP range is limited to 2.7 V...3.6 V without using the DC-DC (configuration examples 3 and 4 in the data sheet) including ULPCD.
- Min VBAT voltage = 2.8 V
- VDDPA overcurrent flag is not always generated in case of an overcurrent condition.

## 5 Precautionary notes

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1. Do not disable the DPC and activate the RF field for IC's connected to antennas matched "Symmetric" (for example, customer development board antenna). Possible damage of the transmitter drivers due to over-current over long period might occur.

## 6 Legal information

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Date of release: 13 January 2022  
Document identifier: RN00013