

# ARM<sup>®</sup> Cortex<sup>®</sup>- M 32-bit Microcontroller

# NuMicro<sup>®</sup> Family ISP Programming Tool Revision History

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### Revision 2.05 (Released 2018-09-05)

- 1. Added support for M4521 series.
- 2. Added M480 USBD High-Speed ISP Sample
- 3. Added support for NUC2201 series.
- 4. Added support for NUC029xDE series.
- 5. Added support for NUC029xEE series.
- 6. Removed entry pin restriction for ISP\_USCI\_UART samples. (NM1120 and Mini57)
- 7. Added support for M2351 series.

## Revision 2.04 (Released 2018-03-29)

- 1. Added support for M480 series.
- 2. Fixed NUC123 external clock bring up issue.
- 3. Fixed Mini58 reset failed issue caused by external clock stable bit.
- 4. Supplied Visual Studio 2008 ISP project
- 5. Updated User Configuration Options for Nano100AN, Nano103, NUC123 and M051 series.
- 6. Added an option to reset and run code in APROM.
- 7. Updated NUC100BSP and NUC200BSP to fix USBD driver Zero Flag issue.
- 8. Added support for NuVoice chips include I91000, I91200, I94100, ISD9100 and N575 series.
- 9. Added support for NM1200\_NM1100 series.

The ISPTool samples repository is available on GitHub and GITEE.

Please check the following link to get the latest update.

https://github.com/OpenNuvoton/ISPToolhttps://gitee.com/OpenNuvoton/ISPToolhttps://gitee.com/OpenNuvoton/ISPToolhttps://gitee.com/OpenNuvoton/ISPToolhttps://github.com/OpenNuvoton/ISPT

### **Revision 2.03** (Released 2017-06-21)

- 1. Updated Mini51BSP, Mini55BSP, Mini58BSP, Nano100A\_BSP, Nano103BSP and NUC472 442BSP drivers to fix known issues.
- 2. Added support for M0564, NUC126 and NUC121 series.
- 3. Added backward capability for legacy ISP firmware.
- 4. Added support for NUC505 IAP function in MTP mode.
- 5. Added an option to specify Data Flash address for 8051 1T series.
- 6. Fixed the USB surprise removal issue.
- 7. Added support for Mini57 and Nano102\_112 series.

The latest ISPTool can be found at: https://github.com/OpenNuvoton/ISPTool

### Revision 2.00 (Released 2016-09-01)

- 1. Updated all BSP versions to fix known issue.
- 2. Fixed bug in Data Flash programming error for all series.
- 3. Fixed bug in CONFIG programming for NUC472\_442 series.
- 4. Changed USB PID to 0x3F00.
- 5. Supported all M0, M4 and 8051-1T series in ISP Tool.



### Revision 1.47 (Released 2015-07-28)

- Supported PC tool and Firmware source code in "(1) Application Program" and "(2) Nuvoton Standard ISP Code" folder.
- 2. Supported M0519, NM1500, NM1200, Mini58 and NUC123AE series.
- 3. Supported NUC505 IAP function (non-FMC type of ISP).
- 4. Updated NUC029xAN firmware to use internal clock.
- 5. Fixed the firmware bug "jumping to APROM failed when ISP time-out happened" in NUC472 and ISD9100 series.
- 6. Fixed the bug in ISP PC tool for incorrect NUC120LC1DN flash size.
- 7. Supported NUC505 I<sup>2</sup>C Master and I<sup>2</sup>C Slave ISP firmware.
- 8. Supported NUC029xAN UART Master ISP firmware.

### **Revision 1.46** (Released 2014-11-28)

- 1. Supported NUC472 ISP connected via Ethernet interface.
- 2. Supported Mini51X, ISD9100, M45xD and M45xC series.

### **Revision 1.45.1** (Released 2014-07-31)

1. Supported NUC131 and M0518 series.

### **Revision 1.45** (Released 2014-06-10)

- 1. Added M451 Series and NUC029 support.
- 2. Added the form of the hardware connection for COM port or USB interface.
- 3. Modified description for Hardware Connection for 'ISP through COM Port or USB'.

### **Revision 1.44** (Released 2014-01-20)

- 1. Added Mini51BN, MINI51DE, M051CN, M051DE, NUC200, and Nano112 support.
- 2. Added the User Configuration form for M051AN/BN, M051CN/DE, MINI51AN, MINI51BN, MINI51DE, Nano100, Nano112, NUC100, NUC122, NUC123, and NUC200 series.
- 3. Updated the project file format to include APROM and Data Flash images file body, not only file path.
- 4. Removed "Erase Flag", which causes Data Flash be erased. Also, updated all ISP firmware to version 2.4.
- 5. Provided Nano112 ISP firmware.

### **Revision 1.42.1** (Released 2012-08-28)

1. Added NUC123 support.

### **Revision 1.41.3** (Released 2011-11-17)

1. Modified Data Flash base address error for Nano100 and Mini51 series.

### **Revision 1.41.2** (Released 2011-08-29)

1. Supported Nano100 and Mini51 series.



### **Revision 1.41** (Released 2011-04-29)

1. Supported ISP project file.

### **Revision 1.40** (Released 2011-03-21)

- 1. Updated Nuvoton Standard ISP Code to v2.3, which Integrated the 'ISP through COM port' and 'ISP through USB' function for NUC120/140/101, and improved the operation stability.
- 2. Added 'Erase Flag' for erasing control of Data Flash during ISP operation.
- 3. Fixed some application program bugs.

### **Revision 1.32** (Released 2010-12-08)

1. Preliminary version.



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