

## ARM® Cortex® - M 32-bit Microcontroller

# NuMicro® Family ISP Programming Tool Revision History

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## 1 Revision History

Version	Release Date	Description
4.13	2024/01/26	<ul style="list-style-type: none"> <li>Added supported seires: <ul style="list-style-type: none"> <li>M55M1 series</li> </ul> </li> <li>Added supported microcontroller: <ul style="list-style-type: none"> <li>M2L31SG4AE, M2L31SE4AE, M2L31LG4AE, M2L31LE4AE, M2L31LD4AE, M2L31YG4AE, M2L31YE4AE, M2L31YD4AE, M2L31ZE4AE, M2L31ZD4AE, M2L31XD4AE for M2L31 series</li> </ul> </li> <li>Added new USB VID_0x0416 PID_0x2009 for Nu-Link2-Me ISP-I2C</li> </ul>
4.12	2023/10/20	<ul style="list-style-type: none"> <li>Added interfaces: <ul style="list-style-type: none"> <li>LIN interface</li> <li>Wifi interface</li> <li>BLE interface</li> </ul> </li> </ul>
4.11	2023/08/02	<ul style="list-style-type: none"> <li>Added supported seires: <ul style="list-style-type: none"> <li>M2L31 series.</li> <li>MG51 series</li> <li>N76S003</li> </ul> </li> <li>Added supported microcontroller: <ul style="list-style-type: none"> <li>M463K3GCAC, M463S3GCAC, M463L3GCAC for M460 series</li> <li>M253ZE3BE, M253LD3BE, M253LE3BE for M253 series</li> </ul> </li> </ul>
4.10	2022/10/25	<ul style="list-style-type: none"> <li>Added supported seires: <ul style="list-style-type: none"> <li>N574 series.</li> <li>NM1800 series.</li> <li>NUC1263 series</li> </ul> </li> <li>Added supported microcontroller: <ul style="list-style-type: none"> <li>NUC029MDE for NUC029 series</li> <li>M0A23OC1ACU and M0A23EC1ACU for M0A21 series.</li> </ul> </li> </ul>
4.09	2022/07/19	<ul style="list-style-type: none"> <li>Added new USB VID_0x0416 PID_0x2006 for Nu-Link2-Pro (firmware version &gt;= 7380r)</li> </ul>
4.07	2021/12/06	<ul style="list-style-type: none"> <li>Added supported microcontroller: <ul style="list-style-type: none"> <li>NuMicro M0 Family: M031G series, N32F030 series and NM18407Y.</li> <li>NuMicro M23 Family: NUC1262 series, M256D series and M258G series.</li> <li>NuMicro M4 Family: M460 series</li> </ul> </li> <li>Added supported new Nu-Link2 USB product ID "0x5203"</li> <li>Added new programming option for command line mode. <ul style="list-style-type: none"> <li>Added SPI programming option.</li> <li>Added Data Flash programming option.</li> </ul> </li> </ul>

4.03	2020/12/03	<ul style="list-style-type: none"> <li>Added supported microcontroller: <ul style="list-style-type: none"> <li>NuMicro M0 Family: NM1240, M030G, M0A21 and M071 series.</li> <li>NuMicro M23 Family: M253, M258 and M2354 series.</li> <li>NuMicro M4 Family: M487KMCAN, M471 and M479 series.</li> <li>NuMicro 8051 Family: ML56 series.</li> </ul> </li> <li>Added SPI programming options.</li> <li>Added command line function for HID and UART interfaces.</li> </ul>
3.05	2019/10/16	<ul style="list-style-type: none"> <li>Supported TF5100 for Motor MCU.</li> <li>Supported M480LD for NuMicro M4 series.</li> <li>Supported M252 for NuMicro M23 series.</li> <li>Supported NUC1311 for NuMicro M0 series.</li> <li>Supported M031G&amp;I for NuMicro M0 series.</li> <li>Modified DialogConfiguration_I94000 CONFIG1 reserved bit to 0.</li> <li>Added lost NUC029NAN flash information in FlashInfo.cpp.</li> <li>Supported M261 for NuMicro M23 series.</li> <li>Supported Nu-Link2 ISP-Bridge functionality.</li> <li>Updated chip database version from V1.0.0.9 to V1.0.0.35 for NuVoice series.</li> <li>Removed Visual Studio 2008 ISP project file.</li> </ul> <p>The ISPTool samples repository is available on GitLab.  <a href="https://gitlab.com/OpenNuvoton/nuvoton-tools/ISPTool">https://gitlab.com/OpenNuvoton/nuvoton-tools/ISPTool</a></p>
2.06	2019/03/13	<ul style="list-style-type: none"> <li>Added support for NM1230 series.</li> <li>Added support for NUC029xGE series.</li> <li>Added support for M031 series.</li> <li>Added support for ML51 series.</li> <li>Added support for NUC1261 series.</li> <li>Added support for MS51 series.</li> <li>Added 8051-1T series ISP sample codes.</li> </ul>
2.05	2018/09/05	<ul style="list-style-type: none"> <li>Added support for M4521 series.</li> <li>Added M480 USB High-Speed ISP Sample.</li> <li>Added support for NUC2201 series.</li> <li>Added support for NUC029xDE series.</li> <li>Added support for NUC029xEE series.</li> <li>Removed entry pin restriction for ISP_USCI_UART samples. (NM1120 and Mini57)</li> <li>Added support for M2351 series.</li> </ul>
2.04	2018/03/29	<ul style="list-style-type: none"> <li>Added support for M480 series.</li> <li>Fixed NUC123 external clock bring up issue.</li> <li>Fixed Mini58 reset failed issue caused by external clock stable bit.</li> </ul>

		<ul style="list-style-type: none"> <li>Supplied Visual Studio 2008 ISP project.</li> <li>Updated User Configuration Options for Nano100AN, Nano103, NUC123 and M051 series.</li> <li>Added an option to reset and run code in APROM.</li> <li>Updated NUC100BSP and NUC200BSP to fix USB driver Zero Flag issue.</li> <li>Added support for NuVoice chips include I91000, I91200, I94100, ISD9100 and N575 series.</li> <li>Added support for NM1200_NM1100 series.</li> </ul> <p>The ISPTool samples repository is available on GitHub and GITEE. Please check the following link to get the latest update. <a href="https://github.com/OpenNuvoton/ISPTool">https://github.com/OpenNuvoton/ISPTool</a> <a href="https://gitee.com/OpenNuvoton/ISPTool">https://gitee.com/OpenNuvoton/ISPTool</a></p>
<b>2.03</b>	<b>2017/06/21</b>	<ul style="list-style-type: none"> <li>Updated Mini51BSP, Mini55BSP, Mini58BSP, Nano100A_BSP, Nano100B_BSP, Nano103BSP and NUC472_442BSP drivers to fix known issues.</li> <li>Added support for M0564, NUC126 and NUC121 series.</li> <li>Added backward capability for legacy ISP firmware.</li> <li>Added support for NUC505 IAP function in MTP mode.</li> <li>Added an option to specify Data Flash address for 8051 1T series.</li> <li>Fixed the USB surprise removal issue.</li> <li>Added support for Mini57 and Nano102_112 series.</li> </ul>
<b>2.00</b>	<b>2016/09/01</b>	<ul style="list-style-type: none"> <li>Updated all BSP versions to fix known issue.</li> <li>Fixed bug in Data Flash programming error for all series.</li> <li>Fixed bug in CONFIG programming for NUC472_442 series.</li> <li>Changed USB PID to 0x3F00.</li> <li>Supported all M0, M4 and 8051-1T series in ISP Tool.</li> </ul>
<b>1.47</b>	<b>2015/07/28</b>	<ul style="list-style-type: none"> <li>Supported PC tool and Firmware source code in "(1) Application Program" and "(2) Nuvoton Standard ISP Code" folder.</li> <li>Supported M0519, NM1500, NM1200, Mini58 and NUC123AE series.</li> <li>Supported NUC505 IAP function (non-FMC type of ISP).</li> <li>Updated NUC029xAN firmware to use internal clock.</li> <li>Fixed the firmware bug "jumping to APROM failed when ISP time-out happened" in NUC472 and ISD9100 series.</li> <li>Fixed the bug in ISP PC tool for incorrect NUC120LC1DN flash size.</li> <li>Supported NUC505 I2C Master and I2C Slave ISP firmware.</li> <li>Supported NUC029xAN UART Master ISP firmware.</li> </ul>
<b>1.46</b>	<b>2014/11/28</b>	<ul style="list-style-type: none"> <li>Supported NUC472 ISP connected via Ethernet interface.</li> <li>Supported Mini51X, ISD9100, M45xD and M45xC series.</li> </ul>
<b>1.45.1</b>	<b>2014/07/31</b>	<ul style="list-style-type: none"> <li>Supported NUC131 and M0518 series.</li> </ul>

<b>1.45</b>	<b>2014/06/10</b>	<ul style="list-style-type: none"> <li>Added M451 Series and NUC029 support.</li> <li>Added the form of the hardware connection for COM port or USB interface.</li> <li>Modified description for Hardware Connection for 'ISP through COM Port or USB'.</li> </ul>
<b>1.44</b>	<b>2014/01/20</b>	<ul style="list-style-type: none"> <li>Added Mini51BN, MINI51DE, M051CN, M051DE, NUC200, and Nano112 support.</li> <li>Added the User Configuration form for M051AN/BN, M051CN/DE, MINI51AN, MINI51BN, MINI51DE, Nano100, Nano112, NUC100, NUC122, NUC123, and NUC200 series.</li> <li>Updated the project file format to include APROM and Data Flash images file body, not only file path.</li> <li>Removed "Erase Flag", which causes Data Flash be erased. Also, updated all ISP firmware to version 2.4.</li> <li>Provided Nano112 ISP firmware.</li> </ul>
<b>1.42.1</b>	<b>2012/08/28</b>	<ul style="list-style-type: none"> <li>Added NUC123 support.</li> </ul>
<b>1.41.3</b>	<b>2011/11/17</b>	<ul style="list-style-type: none"> <li>Modified Data Flash base address error for Nano100 and Mini51 series.</li> </ul>
<b>1.41.2</b>	<b>2011/08/29</b>	<ul style="list-style-type: none"> <li>Supported Nano100 and Mini51 series.</li> </ul>
<b>1.41</b>	<b>2011/04/29</b>	<ul style="list-style-type: none"> <li>Supported ISP project file.</li> </ul>
<b>1.40</b>	<b>2011/03/21</b>	<ul style="list-style-type: none"> <li>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.</li> <li>Added 'Erase Flag' for erasing control of Data Flash during ISP operation.</li> <li>Fixed some application program bugs.</li> </ul>
<b>1.32</b>	<b>2010/12/08</b>	<ul style="list-style-type: none"> <li>Preliminary version.</li> </ul>

## 2 Supported Microcontroller - NuMicro® Family

Product Line	Series	Part Number
NuMicro® 8051 Family	<b>MG51</b>	MG51XB9AE, MG51XB9BE, MG51FB9AE, MG51XC9AE, MG51XC9BE, MG51FC9AE
	<b>ML51</b>	ML51BB9AE, ML51DB9AE, ML51FB9AE, ML51OB9AE, ML51XB9AE, ML51EB9AE, ML51UB9AE, ML51PB9AE, ML51TB9AE, ML51EC0AE, ML51UC0AE, ML51PC0AE, ML51TC0AE, ML51TD1AE, ML51LD1AE, ML51SD1AE
	<b>ML54</b>	ML54MD1AE, ML54LD1AE, ML54SD1AE
	<b>ML56</b>	ML56MD1AE, ML56LD1AE, ML56SD1AE
	<b>MS51</b>	MS51BA9AE, MS51DA9AE, MS51XB9AE, MS51XB9BE, MS51FB9AE, MS51FC0AE, MS51XC0BE, MS51EC0AE, MS51TC0AE, MS51PC0AE, MS51EB0AE
	<b>N76E003</b>	N76E003AT20, N76E003AS20, N76E003AQ20, N76E003BQ20, N76E003CQ20
	<b>N76E616</b>	N76E616AL48, N76E616AF44, N76E616AM44
	<b>N76E885</b>	N76E885AT28, N76E885AT20, N76E885AQ20, N76E885AS28
	<b>N76S003</b>	N76S003AQ20, N76S003AT20
NuMicro® M0 Family	<b>Mini51</b>	MINI51LAN, MINI51ZAN, MINI51TAN, MINI51LDE, MINI51QDE, MINI51ZDE, MINI51TDE, MINI51FDE
	<b>Mini52</b>	MINI52LAN, MINI52ZAN, MINI52TAN, MINI52LDE, MINI52QDE, MINI52ZDE, MINI52TDE, MINI52FDE
	<b>Mini54</b>	MINI54LAN, MINI54ZAN, MINI54TAN, MINI54LDE, MINI54QDE, MINI54ZDE, MINI54TDE, MINI54FDE, MINI54FHC
	<b>Mini55</b>	MINI55LDE, MINI55ZDE, MINI55TDE
	<b>Mini57</b>	MINI57EDE, MINI57FDE, MINI57XDE, MINI57TDE
	<b>Mini58</b>	MINI58FDE, MINI58LDE, MINI58QDE, MINI58TDE, MINI58ZDE
	<b>M029G</b>	M029GGC0AE
	<b>M030</b>	M030TD2AE, M030LD2AE, M030FD2AE
	<b>M030G</b>	M030GGD1AE, M030GTD1AE, M030GGC1AE, M030GTC1AE, M030GGC0AE, M030GTC0AE
	<b>M031</b>	M031BTYD2AN, M031BTYE3AN, M031LE3AE, M031SE3AE, M031TE3AE, M031TD2AE, M031LD2AE, M031LC2AE, M031SD2AE, M031SC2AE, M031FC1AE, M031EC1AE, M031TC1AE, M031FB0AE, M031EB0AE, M031TB0AE, M031SIAAE, M031KIAAE, M031LG8AE, M031SG8AE, M031KG8AE, M031LG6AE, M031SG6AE, M031KG6AE
	<b>M031G</b>	M031GGD2AE, M031GTD2AE, M031GGC2AE, M031GTC2AE, M031GGC1AE, M031GTC1AE
	<b>M032</b>	M032LE3AE, M032SE3AE, M032SIAAE, M032KIAAE, M032LG8AE, M032SG8AE, M032KG8AE, M032LG6AE, M032SG6AE, M032KG6AE, M032TD2AE, M032LD2AE,

		M032LC2AE, M032FC1AE, M032EC1AE, M032TC1AE
	<b>M051</b>	M0516LAN, M0516ZAN, M0516LBN, M0516ZBN, M0516LDN, M0516ZDN, M0516LDE, M0516ZDE
	<b>M0515</b>	M0515LDE
	<b>M0518</b>	M0518LD2AE, M0518LC2AE, M0518SD2AE, M0518SC2AE
	<b>M0519</b>	M0519LD3AE, M0519LE3AE, M0519SD3AE, M0519SE3AE, M0519VE3AE
	<b>M052</b>	M052LAN, M052ZAN, M052LBN, M052ZBN, M052LDN, M052ZDN, M052LDE, M052ZDE
	<b>M054</b>	M054LAN, M054ZAN, M054LBN, M054ZBN, M054LDN, M054ZDN, M054LDE, M054ZDE
	<b>M0564</b>	M0564LE4AE, M0564LG4AE, M0564SE4AE, M0564SG4AE, M0564VG4AE
	<b>M058</b>	M058LAN, M058ZAN, M058LBN, M058ZBN, M058LDN, M058ZDN, M058LDE, M058ZDE, M058MDE
	<b>M058S</b>	M058SLAN, M058SZAN, M058SSAN, M058SFAN
	<b>M071</b>	M071MC2AE, M071MD2AE, M071R1D3AE, M071R1E3AE, M071SD3AE, M071SE3AE, M071VG4AE
	<b>M0A21</b>	M0A21OB1AC, M0A21OC1AC, M0A21EB1AC, M0A21EC1AC
	<b>M0A23</b>	M0A23OC1AC, M0A23EC1AC, M0A23OC1ACU, M0A23EC1ACU
	<b>NDA102</b>	NDA102SD2, NDA102UD2, NDA102TD2, NDA102SE3
	<b>NUC029</b>	NUC029NAN, NUC029LAN, NUC029TAN, NUC029CIG1, NUC029ZAN, NUC029TAE, NUC029FAE, NUC029LDE, NUC029SDE, NUC029LEE, NUC029SEE, NUC029LGE, NUC029SGE, NUC029KGE
	<b>NUC100</b>	NUC100LE3AN, NUC100LD3AN, NUC100RE3AN, NUC100RD3AN, NUC100VE3AN, NUC100VD3AN, NUC100VD2AN, NUC100LE3DN, NUC100LD3DN, NUC100LD2DN, NUC100LD1DN, NUC100LC1DN, NUC100RE3DN, NUC100RD3DN, NUC100RD2DN, NUC100RD1DN, NUC100RC1DN, NUC100VE3DN, NUC100VD3DN, NUC100VD2DN, NUC100VE3DE
	<b>NUC120</b>	NUC120LE3AN, NUC120LD3AN, NUC120RE3AN, NUC120RD3AN, NUC120VE3AN, NUC120VD3AN, NUC120VD2AN, NUC120LE3DN, NUC120LD3DN, NUC120LD2DN, NUC120LD1DN, NUC120LC1DN, NUC120VE3DN, NUC120VD3DN, NUC120VD2DN, NUC120RE3DN, NUC120RD3DN, NUC120RD2DN, NUC120RD1DN, NUC120RC1DN, NUC120LD2DE
	<b>NUC121</b>	NUC121ZC2AE, NUC121LC2AE, NUC121SC2AE, NUC121WC2AE, NUC121Y25CN
	<b>NUC122</b>	NUC122LD2AN, NUC122LC1AN, NUC122SD2AN, NUC122SC1AN, NUC122ZD2AN, NUC122ZC1AN, NUC122ZD2DN, NUC122LD2DN, NUC122SD2DN, NUC122ZC1DN, NUC122LC1DN, NUC122SC1DN
	<b>NUC123</b>	NUC123SC2AN1, NUC123SD4AN0, NUC123LC2AN1, NUC123LD4AN0, NUC123ZC2AN1, NUC123ZD4AN0, NUC123SC2AE1, NUC123SD4AE0, NUC123LC2AE1, NUC123LD4AE0, NUC123ZC2AE1, NUC123ZD4AE0

	<b>NUC125</b>	NUC125ZC2AE, NUC125LC2AE, NUC125SC2AE
	<b>NUC126</b>	NUC126LE4AE, NUC126LG4AE, NUC126SE4AE, NUC126SG4AE, NUC126VG4AE, NUC126NE4AE
	<b>NUC1261</b>	NUC1261NE4AE, NUC1261LE4AE, NUC1261LG4AE, NUC1261SE4AE, NUC1261SG4AE
	<b>NUC130</b>	NUC130LE3CN, NUC130LD2CN, NUC130LC1CN, NUC130RE3CN, NUC130RD2CN, NUC130RC1CN, NUC130VE3CN
	<b>NUC131</b>	NUC131LD2AE, NUC131LC2AE, NUC131SD2AE, NUC131SC2AE, NUC131LD2AEU, NUC131LC2AEU, NUC131SD2AEU, NUC131SC2AEU
	<b>NUC1311</b>	NUC1311LD2AE, NUC1311LC2AE
	<b>NUC140</b>	NUC140LE3CN, NUC140LD2CN, NUC140LC1CN, NUC140RE3CN, NUC140RD2CN, NUC140RC1CN, NUC140VE3CN
	<b>NUC200</b>	NUC200LE3AE, NUC200LE3AN, NUC200LD2AN, NUC200LC2AN, NUC200VE3AN, NUC200SE3AN, NUC200SD2AN, NUC200SC2AN
	<b>NUC220</b>	NUC220LE3AE, NUC220LE3AN, NUC220LD2AN, NUC220LC2AN, NUC220VE3AN, NUC220SE3AN, NUC220SD2AN, NUC220SC2AN
	<b>NUC2201</b>	NUC2201LE3AE, NUC2201SE3AE
	<b>NUC230</b>	NUC230LC2AE, NUC230LD2AE, NUC230LE3AE, NUC230SC2AE, NUC230SD2AE, NUC230SE3AE, NUC230VE3AE
	<b>NUC240</b>	NUC240LC2AE, NUC240LD2AE, NUC240LE3AE, NUC240SC2AE, NUC240SD2AE, NUC240SE3AE, NUC240VE3AE
	<b>Nano100</b>	Nano100ZD3AN, Nano100ZD2AN, Nano100VD3AN, Nano100VD2AN, Nano100SD3AN, Nano100SD2AN, Nano100LD3AN, Nano100LD2AN, Nano100ZC2AN, Nano100SC2AN, Nano100LC2AN, Nano100KE3BN, Nano100SE3BN, Nano100LE3BN, Nano100KD3BN, Nano100SD3BN, Nano100SD2BN, Nano100LD3BN, Nano100LD2BN, Nano100SC2BN, Nano100LC2BN, Nano100NE3BN, Nano100ND3BN, Nano100ND2BN, Nano100WE3BN
	<b>Nano102</b>	Nano102ZB1AN, Nano102ZC2AN, Nano102LB1AN, Nano102LC2AN, Nano102SC2AN
	<b>Nano103</b>	Nano103ZD3AE, Nano103LD3AE, Nano103SD3AE
	<b>Nano110</b>	Nano110KE3BN, Nano110SE3BN, Nano110KD3BN, Nano110KD2BN, Nano110SD3BN, Nano110SD2BN, Nano110KC2BN, Nano110SC2BN, Nano110RC2BN, Nano110RD2BN, Nano110RD3BN
	<b>Nano112</b>	Nano112LB1AN, Nano112LC2AN, Nano112SB1AN, Nano112SC2AN, Nano112RB1AN, Nano112RC2AN, Nano112VC2AN
	<b>Nano120</b>	Nano120VD3AN, Nano120VD2AN, Nano120SD3AN, Nano120SD2AN, Nano120LD3AN, Nano120LD2AN, Nano120SC2AN, Nano120LC2AN, Nano120ZD3AN, Nano120ZD2AN, Nano120ZC2AN, Nano120KE3BN, Nano120SE3BN, Nano120LE3BN, Nano120KD3BN, Nano120SD3BN, Nano120SD2BN, Nano120LD3BN, Nano120LD2BN, Nano120SC2BN, Nano120LC2BN

	<b>Nano130</b>	Nano130VD3AN, Nano130KE3BN, Nano130SE3BN, Nano130KD3BN, Nano130KD2BN, Nano130SD3BN, Nano130SD2BN, Nano130KC2BN, Nano130SC2BN
<b>NuMicro® M23 Family</b>	<b>M2351</b>	M2351KIAAE, M2351SIAAE, M2351ZIAAE, M2351SFSIAAP, M2351CIAAE
	<b>M2354</b>	M2354ES, M2354KJFAE, M2354SJFAE, M2354LJFAE
	<b>M251</b>	M251FC2AE, M251EC2AE, M251ZC2AE, M251SC2AE, M251LC2AE, M251SD2AE, M251LD2AE, M251ZD2AE, M251KE3AE, M251SE3AE, M251LE3AE, M251KG6AE, M251SG6AE, M251LG6AE
	<b>M252</b>	M252FC2AE, M252EC2AE, M252ZC2AE, M252SC2AE, M252LC2AE, M252SD2AE, M252LD2AE, M252ZD2AE, M252KE3AE, M252SE3AE, M252LE3AE, M252KG6AE, M252SG6AE, M252LG6AE
	<b>M253</b>	M253ZE3AE, M253LE3AE, M253LD3AE, M253ZE3BE, M253LE3BE, M253LD3BE
	<b>M254</b>	M254SD3AE, M254SE3AE, M254KE3AE, M254SD2AE, M254MD3AE, M254KG6AE, M254SG6AE
	<b>M256</b>	M256SE3AE, M256KE3AE, M256SD2AE, M256MD3AE, M256KG6AE, M256SG6AE
	<b>M258</b>	M258SE3AE, M258KE3AE, M258KG6AE, M258SG6AE
	<b>M261</b>	M261KIAAE, M261SIAAE, M261ZIAAE
	<b>M262</b>	M262KIAAE, M262SIAAE, M262ZIAAE
	<b>M263</b>	M263KIAAE, M263SIAAE, M263ZIAAE
	<b>M2L31</b>	M2L31KIDAE, M2L31KGDAE, M2L31SIDAE, M2L31SGDAE, M2L31SG4AE, M2L31SE4AE, M2L31LIDAE, M2L31LGDAE, M2L31LG4AE, M2L31LE4AE, M2L31LD4AE, M2L31YIDAE, M2L31YGDAE, M2L31YG4AE, M2L31YE4AE, M2L31YD4AE, M2L31ZE4AE, M2L31ZD4AE, M2L31CIDAE, M2L31CGDAE, M2L31XD4AE
	<b>NUC1262</b>	NUC1262NE4AE, NUC1262LE4AE, NUC1262SE4AE, NUC1262YE4AE
	<b>NUC1263</b>	NUC1263SD4AE, NUC1263LD4AE, NUC1263ND4AE, NUC1263ZD4AE, NUC1263SD4CE, NUC1263LD4CE, NUC1263ND4CE, NUC1263ZD4CE
<b>NuMicro® M4 Family</b>	<b>M451</b>	M451VG6AE, M451VE6AE, M451RG6AE, M451RE6AE, M451LG6AE, M451LE6AE, M451RD3AE, M451RC3AE, M451LD3AE, M451LC3AE, M451MLG6AE, M451MLE6AE, M451MSD3AE, M451MSC3AE, M451MLD3AE, M451MLC3AE
	<b>M452</b>	M452VG6AE, M452VE6AE, M452RG6AE, M452RE6AE, M452LG6AE, M452LE6AE, M452RD3AE, M452LD3AE, M452LC3AE
	<b>M4521</b>	M4521SE6AE, M4521LE6AE
	<b>M453</b>	M453VG6AE, M453VE6AE, M453RG6AE, M453RE6AE, M453LG6AE, M453LE6AE, M453VD3AE, M453RD3AE, M453LD3AE, M453LC3AE,
	<b>M460</b>	M460KGCAE, M460SGCAE, M460LGCAE, M460YGCAE
	<b>M463</b>	M463KGCAE, M463VGCAE, M463SGCAE, M463LGCAE, M463YGCAE, M463S2GCAC, M463L2GCAC, M463K2GCAC

	<b>M467</b>	M467SJHAE, M467KJHAE, M467JJHAE, M467HJHAE, M467H3KJHAE, M467H3JJHAE, M467SJHAN, M467KJHAN, M467JJHAN, M467HJHAN, M467S2JHAE, M467K2JHAE, M467J2JHAE, M467H2JHAE
	<b>M471</b>	M471KI8AE, M471VI8AE, M471VG7AE, M471R1E6AE, M471R1D6AE, M471SE6AE, M471SD6AE, M471MD6AE, M471CI8AE
	<b>M479</b>	M479SG8AEE, M479LG8AEE, M479NG8AEE
	<b>M481</b>	M481SIDAE, M481LIDAE, M481ZIDAE, M481SGCAE, M481SE8AE, M481SGCAE2A, M481LGCAE, M481LGCAEU, M481LE8AE, M481ZGCAE, M481ZE8AE
	<b>M482</b>	M482KIDAE, M482SIDAE, M482LIDAE, M482ZIDAE, M482KGCAE, M482SGCAE, M482SE8AE, M482LGCAE, M482LE8AE, M482ZGCAE, M482ZE8AE
	<b>M483</b>	M483KIDAE, M483SIDAE, M483KGCAE, M483SGCAE, M483SE8AE, M483KGCAE2A, M483SGCAE2A
	<b>M484</b>	M484KIDAE, M484SIDAE, M484SIDAE2U
	<b>M485</b>	M485KIDAE, M485SIDAE, M485LIDAE, M485YIDAE, M485ZIDAE
	<b>M487</b>	M487JIDAE, M487KIDAE, M487SIDAE, M487KMCAN,
	<b>M4LED</b>	M4LEDRG6AE, M4LEDRE6AE, M4LEDLG6AE, M4LEDLE6AE
	<b>M4TK</b>	M4TKVG6AE, M4TKVE6AE, M4TKRG6AE, M4TKRE6AE, M4TKLG6AE, M4TKLE6AE
	<b>NUC442</b>	NUC442JI8AE, NUC442JG8AE, NUC442KI8AE, NUC442KG8AE, NUC442VI8AE, NUC442VG8AE, NUC442RI8AE, NUC442RG8AE
	<b>NUC472</b>	NUC472HI8AE, NUC472HG8AE, NUC472JI8AE, NUC472JG8AE, NUC472KI8AE, NUC472KG8AE, NUC472VI8AE, NUC472VG8AE
	<b>NUC505</b>	NUC505DLA, NUC505YLA, NUC505YLA2Y, NUC505DSA, NUC505DL13Y, NUC505DS13Y, NUC505YO13Y
<b>Motor Control</b>	<b>NM1100</b>	NM1100XBAE, NM1100FBAE
	<b>NM1120</b>	NM1120FC1AE, NM1120EC1AE, NM1120XC1AE, NM1120ZC1AE
	<b>NM1200</b>	NM1200LBAE, NM1200TBAE, NM1200ZBAE
	<b>NM1230</b>	NM1234D, NM1232D, NM1220EBK0, NM1234Y, NM1232Y, NM1233D, NM1233Y
	<b>NM1240</b>	NM1243D48, NM1243Y48, NM1243Y NM1244D48, NM1244Y48, NM1244Y, NM18407Y, NM18402Y, NM18407SY
	<b>NM1320</b>	NM1320LC2AE
	<b>NM1330</b>	NM1330LC1AE, NM1330LD2AE
	<b>NM1500</b>	NM1510LC1AE, NM1520LC2AE, NM1520LD2AE, NM1520RC2AE, NM1520RD2AE, NM1530VD3AE, NM1530VE3AE, NM1530LE3AE
	<b>NM1800</b>	NM18002Y
	<b>NM1810</b>	NM18100Y, NM18101Y, NM18105Y, NM18107Y, NM1817NT

	<b>NM1820</b>	NM18200S, NM18201S, NM18202S, NM1820ZB0AE, NM18200D, NM18200Y, NM18201Y, NM18202Y
	<b>NM1830</b>	NM18307Y
	<b>TF5100</b>	TF5103D, TF5103Y, TF5102Y
	<b>N32F030</b>	N32F030D, N32F030Y, N32F030X

3 Supported Microcontroller - NuVoice® Family

Product Line	Series
Audio Control	I91000, I91200, I94100, ISD9100 , N574 and N575

## 4 Resources

Website	Details
<a href="#">ISPTool</a> on <a href="#">nuvoton.com</a>	<a href="https://www.nuvoton.com/tool-and-software/software-development-tool/programmer/">https://www.nuvoton.com/tool-and-software/software-development-tool/programmer/</a>
	<ul style="list-style-type: none"> <li>Download the latest NuMicro ISP programming Tool.</li> <li>View the ISPTool revision history.</li> </ul>
ISPTool git repositories	<a href="https://github.com/OpenNuvoton/ISPTool">https://github.com/OpenNuvoton/ISPTool</a> <a href="https://gitee.com/OpenNuvoton/ISPTool">https://gitee.com/OpenNuvoton/ISPTool</a> <a href="https://gitlab.com/OpenNuvoton/nuvoton-tools/ISPTool">https://gitlab.com/OpenNuvoton/nuvoton-tools/ISPTool</a>
	<ul style="list-style-type: none"> <li>Check the source code of ISPTool.</li> </ul>

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