

# Nu-Link Driver for Keil MDK Revision History

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## 1 Revision History

Version	Release Date	Description
3.07	2021/06/30	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>Nuvoton M7 Family: KM1M7 series.</li> <li>Nuvoton M0 Family: NM18407Y.</li> </ul> </li> <li>Supported SWO trace via UART mode [Nu-Link2-Pro, Nu-Link2-Me].</li> </ul>
3.06	2021/03/31	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>NuMicro M0 Family: M031G series, M032BTAIAAN, M032BTAG8AN, N32F030 series, N574 series, I91500 series.</li> <li>NuMicro M23 Family: NUC1262 series.</li> </ul> </li> </ul>
3.05	2020/12/4	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>NuMicro 8051 Family: MS51EB0AE.</li> </ul> </li> </ul>
3.04	2020/9/24	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>NuMicro M0 Family: M031TE3AE.</li> <li>NuMicro M23 Family: M2351SFSIAAP.</li> </ul> </li> </ul>
3.03	2020/7/17	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>NuMicro M0 Family: NUC131LC2AEU, NUC131SC2AEU, NUC131LD2AEU, NUC131SD2AEU, NUC029MDE, M030FD2AE, NM18307Y, M071 series, M030G series, M0A21 series, M0515, NM1240 and N569J series.</li> <li>NuMicro M23 Family: NDA102SD, M258, M2354 series.</li> <li>NuMicro M4 Family: M487KMCAN, M471 series.</li> <li>NuMicro 8051 Family: ML56 series.</li> </ul> </li> <li>KEIL software pack upgrade to v1.3.9 (Add M071, M0A21, M030G, M258, M471, NM1240) and cdb file.</li> <li>Supported target chip auto detection.</li> </ul>
3.02	2020/2/1	<ul style="list-style-type: none"> <li>Added supported microcontroller:                             <ul style="list-style-type: none"> <li>NuMicro M4 Family: M48x8AE, M48xCAE, M479 series and M487KMCAN.</li> <li>NuMicro M0 Family: M031BTYE3AN, M030TD2AE, M030LD2AE, M031BTYD2AN, M058MDE, NM18202S, NM1232D, NM1220EBKO, NM1232Y.</li> </ul> </li> </ul>
3.01	2019/9/30	<ul style="list-style-type: none"> <li>Supported NUC1311, M032C/D for NuMicro M0 series.</li> <li>Supported MR63 for NuMicro M23 series.</li> </ul>
3.00	2019/5/3	<ul style="list-style-type: none"> <li>Added TF5100/ M031 (256/512 KB) for Cortex M0 series.</li> <li>Added M261 for Cortex M23 series.</li> <li>Supported Nu-Link2 ICE adapter.</li> </ul>
2.06	2019/02/26	<ul style="list-style-type: none"> <li>Cortex-M</li> </ul>

		<ul style="list-style-type: none"> <li>- Supported M480LD for NuMicro M4 series.</li> <li>- Supported NM1230 for Motor MCU.</li> <li>- Added part number NUC029KGE/NUC029TAE for NuMicro M0 series.</li> <li>• C51             <ul style="list-style-type: none"> <li>- Supported ML51/MS51 for NuMicro 8051 series.</li> <li>- Added PinView plug-in.</li> </ul> </li> </ul>
<b>2.05</b>	<b>2018/09/06</b>	<ul style="list-style-type: none"> <li>• Cortex-M             <ul style="list-style-type: none"> <li>- Supported Nu-Link2 and NuTrace.</li> <li>- Supported NUC029DE/EE/GE, NUC2201, NUC1261, NDA102, M031, NM1230 for NuMicro M0 series.</li> <li>- Supported M4521 for NuMicro M4 series.</li> <li>- Added "Nuvoton Device Family Pack" of MDK5 in the installer, you must install "Nuvoton Device Family Pack" if you are using KEIL MDK Nuvoton edition.</li> </ul> </li> <li>• C51             <ul style="list-style-type: none"> <li>- Supported Nu-Link2 and NuTrace.</li> </ul> </li> </ul>
<b>2.04.6725</b>	<b>2018/04/03</b>	<ul style="list-style-type: none"> <li>• Cortex-M             <ul style="list-style-type: none"> <li>- Improved download performance around 10~30%.</li> <li>- Enabled secure boot option for M480 series.</li> </ul> </li> <li>• C51             <ul style="list-style-type: none"> <li>- Added .ini file under project directory to save user configurations.</li> <li>- Supported SFR Page Selection and SPROM mapping.</li> </ul> </li> </ul>
<b>2.03.6674</b>	<b>2017/12/11</b>	<ul style="list-style-type: none"> <li>• Supported M2351 for NuMicro M23 series.</li> <li>• Merged Nu-Link KEIL C51 driver.</li> </ul>
<b>2.02.6629</b>	<b>2017/06/23</b>	<ul style="list-style-type: none"> <li>• Supported NuConsole, it can show printf log on screen via SWD interface. Please check "NuConsole Plug-in" section of user manual in installation directory.</li> <li>• Supported Mini57 for NuMicro M0 series.</li> <li>• Supported M480 for NuMicro M4 series.</li> <li>• Supported I94000 for NuVoice series.</li> </ul>
<b>2.01.6592</b>	<b>2017/01/13</b>	<ul style="list-style-type: none"> <li>• Supported NUC121, NUC125, NUC126, M0564, NM1810 and I91200 series.</li> <li>• Enable SRAM access less than 0x20000000 of general chip type.</li> </ul>
<b>2.00.6561</b>	<b>2016/07/22</b>	<ul style="list-style-type: none"> <li>• Supported ISD9032 for NuVoice series.</li> <li>• Updated SFR file of NM1120, NM1330, NM1820, Nano103 and N570 for register display.</li> <li>• Fixed the issue that can't find FLM path of M451 40K and N570 series.</li> <li>• Fixed the issue that can't erase SPROM.</li> </ul>

<p><b>1.31.6535</b></p>	<p><b>2016/02/01</b></p>	<ul style="list-style-type: none"> <li>Supported Nano103, NM1120, NM1330, NM1820 for NuMicro M0 series.</li> <li>Supported M4TK for NuMicro M4 series.</li> <li>Supported N575, N576 and N570 for NuVoice series.</li> <li>Updated SFR file of Mini58DE, M451 and NUC505 for register display.</li> <li>Supported spin button edition of data flash.</li> <li>Added the selection of connect type (connect normal and connect under reset).</li> <li>Modified the behavior of option "memory verify code" in "Debug" tab. If checked and downloaded code to SRAM, it will do code verification.</li> <li>Supported breakpoint setting and memory window periodically updating while the CPU is running.</li> <li>Supported data and conditional breakpoint functions completely.</li> </ul>
<p><b>1.30.6491</b></p>	<p><b>2015/07/21</b></p>	<ul style="list-style-type: none"> <li>NUC230/240AE: Supported 8 KB LDROM (4 KB in previous version).</li> <li>Mini58: Supported 2.5 KB LDROM (2 KB in previous version).</li> <li>Nano112: Fixed ICE connection failed when target chip is in Power-down mode.</li> <li>Supported Mini55LDE, Mini55ZDE for NuMicro M0 series.</li> <li>NUC100, M051: Supported to keep previous Config0[10] value after whole chip erase.</li> <li>Renamed NUC123BE to NUC123AE.</li> </ul>
<p><b>1.29.6425</b></p>	<p><b>2015/03/27</b></p>	<ul style="list-style-type: none"> <li>Improved user interface to be resizable and scrollable.</li> <li>Increased NUC505 download speed 3 times in 1 MHz ICE clock.</li> <li>Replaced ICE clock 16 MHz with 12 MHz for compatibility issue.</li> <li>Added part number: NUC220LE3AE.</li> <li>Supported M0519, NM1320 and Mini58 for NuMicro M0 series.</li> <li>Provided an option to install Bulk USB driver when Nu-Link driver installation completed.</li> </ul>
<p><b>1.28.6386</b></p>	<p><b>2015/01/14</b></p>	<ul style="list-style-type: none"> <li>Supported USB Bulk mode which can improve downloading and programming speed on Win7.</li> <li>Added part number: NUC120LD2DE.</li> <li>Supported NUC029 for NuMicro M0 series.</li> <li>Fixed Configure Setting dialog GUI for Nano102/112 series.</li> </ul>
<p><b>1.27.6340</b></p>	<p><b>2014/9/29</b></p>	<ul style="list-style-type: none"> <li>Supported NUC505 for NuMicro M4 series.</li> <li>Added part numbers: M4LEDRG6AE, M4LEDRE6AE, M4LEDLG6AE, M4LEDLE6AE.</li> <li>Added part number: NUC100VE3DE.</li> </ul>
<p><b>1.26.6314</b></p>	<p><b>2014/07/21</b></p>	<ul style="list-style-type: none"> <li>Supported M0518 for NuMicro M0 series.</li> <li>Added M452 and M453 part number for M451 series.</li> </ul>
<p><b>1.25.6287</b></p>	<p><b>2014/05/22</b></p>	<ul style="list-style-type: none"> <li>Supported NUC131 for NuMicro M0 series.</li> </ul>

		<ul style="list-style-type: none"> <li>Supported M451 for NuMicro M4 series.</li> <li>Supported ISD9300 for ISD series.</li> <li>Supported one computer can be connected to 10 Nu-Link devices simultaneously.</li> <li>Supported PinView function which can help user to debug and observe pin status on a user friendly GUI.</li> <li>Added data breakpoint support.</li> <li>Renamed the part number MT530 to NM1530.</li> </ul>
<b>1.24.6211</b>	<b>2014/01/16</b>	<ul style="list-style-type: none"> <li>Supported Nano112AN and AU9110 for NuMicro M0 series.</li> <li>Added chip support table in KEIL menu: Help -&gt; Open Books Window -&gt; Tools User's Guide -&gt; Nu-Link Release Notes.</li> </ul>
<b>1.23.6103</b>	<b>2013/10/25</b>	<ul style="list-style-type: none"> <li>Supported M051DN, M051DE, Mini51DE, NUC100EN, NUC200AE, MT500BE for NuMicro M0 series.</li> <li>Supported NUC442/472 for NuMicro M4 series.</li> </ul>
<b>1.22.6040</b>	<b>2013/07/09</b>	<ul style="list-style-type: none"> <li>Supported M058SAN, M051DN, NANO100AN and MINI51BN series.</li> <li>Enabled user to edit core registers R0-R14 in KEIL registers panel.</li> <li>Added an error message to terminate the download process if image size is larger than APROM size.</li> <li>Added the boot select options "APROM (LDROM visible)" and "LDROM (APROM visible)" for NuMicro series chips.</li> <li>Fixed the bug that selecting NUC1xx series and BOD set to 2.7V, and entering Debug mode will cause Keil crash.</li> </ul>
<b>1.21.5905</b>	<b>2012/12/27</b>	<ul style="list-style-type: none"> <li>Fixed the display of 68k and 36k flash size.</li> <li>Updated some naming and grouping of register.</li> <li>Updated the database in target option.</li> </ul>
<b>1.20.5881</b>	<b>2012/12/19</b>	<ul style="list-style-type: none"> <li>Separated NUC123 registers from NUC1xx.</li> <li>Enabled the DFVSEN bit in config0.</li> <li>Modified NUC1xxDN series config dialog header.</li> <li>Removed the clock filter option from config file.</li> <li>Added config0 and config1 value display in NUC100AN config dialog window.</li> <li>Supported registers display of NUC100DN/NUC200AN series.</li> <li>Updated register contents of M051CN series.</li> </ul>
<b>1.19.5786</b>	<b>2012/10/24</b>	<ul style="list-style-type: none"> <li>Supported NUC100DN, NUC123, NUC200, NANO100BN, MT500, MINI51BN and M051CN series.</li> <li>Added "System View Description" in the driver installer.</li> <li>Modified the number of UART in NUC100RE3AN NUC100RD3AND to 2.</li> <li>Integrated Viewer Tool.</li> </ul>
<b>1.18.5320</b>	<b>2011/11/17</b>	<ul style="list-style-type: none"> <li>Supported C51 section in TOOLS.INI.</li> </ul>
<b>1.17.5218</b>	<b>2011/08/11</b>	<ul style="list-style-type: none"> <li>Supported NANO100 and MINI51 series.</li> </ul>

		<ul style="list-style-type: none"> <li>Supported to select multiple Nu-Links.</li> <li>Renamed "Nu-Link Debugger" to "Nuvoton Nu-Link M0 Debugger".</li> <li>Added a debug option "Not reset".</li> <li>Updated to not to show firmware update dialog if Nu-Link firmware is compatible.</li> <li>Fixed bugs about error when writing M051's LDROM.</li> <li>Updated register definition for NUC100 CN.</li> </ul>
<b>1.05.5008</b>	<b>2011/05/04</b>	<ul style="list-style-type: none"> <li>Supported M051 BN and NUC100 CN series.</li> <li>Changed "external 12 MHz crystal clock" to "4-24 MHz".</li> <li>Removed Simplified Chinese documents for Traditional Chinese installer.</li> <li>Supported LED indication for USB/Target power.</li> <li>Supported to adjust target power by Nu-Link pro.</li> <li>Supported to debug the code around semihosting BKPT.</li> </ul>
<b>1.03.4228</b>	<b>2010/12/08</b>	<ul style="list-style-type: none"> <li>Supported NUC122 series.</li> <li>Fixed a bug to avoid Keil IDE lock in step debugging.</li> <li>Supported semihosting command SYS_READ.</li> <li>Fixed a bug to drive target chip to run when connected.</li> <li>Fixed a bug to avoid crash when stopping debug.</li> <li>Updated NUC100 registers script.</li> <li>Supported to check update from network.</li> </ul>
<b>1.02.3814</b>	<b>2010/04/20</b>	<ul style="list-style-type: none"> <li>Release primary version.</li> </ul>

## 2 Supported Debugger and Programmer

Debugger and Programmer	Device Type	Supported Product
<b>Nu-Link2-Pro</b>	Stand-alone	NuMicro 8051 (1T) / M0 / M23 / M4 / M7 Family
<b>Nu-Link-Pro</b>	Stand-alone	NuMicro 8051 (1T) / M0 / M23 / M4 Family
<b>Nu-Link</b>	Stand-alone	NuMicro 8051 (1T) / M0 / M23 / M4 Family
<b>Nu-Link2-Me</b>	Attached to NuMicro EVB	NuMicro 8051 (1T) / M0 / M23 / M4 / M7 Family
<b>Nu-Link-Me</b>	Attached to NuMicro EVB	NuMicro 8051 (1T) / M0 / M23 / M4 Family



## 3 Supported Microcontroller

Product Line	Series	Part Number
NuMicro® 8051 Family	<b>MS51</b>	MS51BA9AE, MS51DA9AE, MS51XB9AE, MS51XB9BE, MS51FB9AE, MS51FC0AE, MS51XC0BE, MS51EC0AE, MS51TC0AE, MS51PC0AE, MS51EB0AE
	<b>ML51</b>	ML51BB9AE, ML51DB9AE, ML51FB9AE, ML51OB9AE, ML51XB9AE, ML51EB9AE, ML51UB9AE, ML51PB9AE, ML51TB9AE, ML51EC0AE, ML51UC0AE, ML51PC0AE, ML51TC0AE, ML51TD1AE, ML51LD1AE, ML51SD1AE, ML54MD1AE, ML54LD1AE, ML54SD1AE, ML56MD1AE, ML56LD1AE, ML56SD1AE
	<b>N76E003</b>	N76E003AT20, N76E003AS20, N76E003AQ20, N76E003BQ20, N76E003CQ20
	<b>N76E616</b>	N76E616AL48, N76E616AF44, N76E616AM44
	<b>N76E885</b>	N76E885AT28, N76E885AT20, N76E885AQ20, N76E885AS28
NuMicro® M0 Family	<b>Mini51</b>	MINI51LAN, MINI51ZAN, MINI51TAN, MINI52LAN, MINI52ZAN, MINI52TAN, MINI54LAN, MINI54ZAN, MINI54TAN, MINI51LDE, MINI51QDE, MINI51ZDE, MINI51TDE, MINI51FDE, MINI52LDE, MINI52QDE, MINI52ZDE, MINI52TDE, MINI52FDE, 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>M030G</b>	M030GGD1AE, M030GTD1AE, M030GGC1AE, M030GTC1AE, M030GGC0AE, M030GTC0AE
	<b>M031G</b>	M031GGD2AE, M031GTD2AE, M031GGC2AE, M031GTC2AE, M031GGC1AE, M031GTC1AE
	<b>M030</b>	M030TD2AE, M030LD2AE, M030FD2AE
	<b>M031</b>	M031BTYD2AN, M031BTYE3AN, M031BTY, M031LE3AE, M031SE3AE, M031TE3AE, M031TD2AE, M031LD2AE, M031LC2AE, M031SD2AE, M031SC2AE, M031FC1AE, M031EC1AE, M031TC1AE, M031FB0AE, M031EB0AE, M031TBOAE, M031SIAAE, M031KIAAE, M031LG8AE, M031SG8AE, M031KG8AE, M031LG6AE, M031SG6AE, M031KG6AE
	<b>M032</b>	M032BTAIAAN, M032BTAG8AN, M032LE3AE, M032SE3AE, M032SIAAE, M032KIAAE, M032LG8AE, M032SG8AE, M032KG8AE, M032LG6AE, M032SG6AE, M032KG6AE, M032TD2AE, M032LD2AE, M032LC2AE, M032FC1AE, M032EC1AE, M032TC1AE
	<b>M051</b>	M052LAN, M052ZAN, M054LAN, M054ZAN, M058LAN, M058ZAN, M0516LAN, M0516ZAN, M052LBN, M052ZBN, M054LBN, M054ZBN, M058LBN, M058ZBN, M0516LBN, M0516ZBN, M052LDN, M052ZDN, M054LDN, M054ZDN, M058LDN,

	M058ZDN, M0516LDN, M0516ZDN, M052LDE, M052ZDE, M054LDE, M054ZDE, M058LDE, M058ZDE, M058MDE, M0516LDE, M0516ZDE
<b>M0515</b>	M0515LDE
<b>M0518</b>	M0518LD2AE, M0518LC2AE, M0518SD2AE, M0518SC2AE
<b>M0519</b>	M0519LD3AE, M0519LE3AE, M0519SD3AE, M0519SE3AE, M0519VE3AE
<b>M0564</b>	M0564LE4AE, M0564LG4AE, M0564SE4AE, M0564SG4AE, M0564VG4AE
<b>M058S</b>	M058SLAN, M058SZAN, M058SSAN, M058SFAN
<b>M071</b>	M071MC2AE, M071MD2AE, M071R1D3AE, M071R1E3AE, M071SD3AE, M071SE3AE, M071QE4AE, M071QG4AE, M071VG4AE
<b>M0A21</b>	M0A21OB1AC, M0A21OC1AC, M0A21EB1AC, M0A21EC1AC, M0A23OC1AC, M0A23EC1AC
<b>NUC029</b>	NUC029NAN, NUC029LAN, NUC029TAN, NUC029CIG1, NUC029ZAN, NUC029TAE, NUC029FAE, NUC029LDE, NUC029SDE, NUC029MDE, 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, NUC120LE3AN, NUC120LD3AN, NUC120RE3AN, NUC120RD3AN, NUC120LE3AN, 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>	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>	NUC200LE3AN, NUC200LD2AN, NUC200LC2AN, NUC200VE3AN, NUC200SE3AN, NUC200SD2AN, NUC200SC2AN, 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, NUC220LE3AE, 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>NDA102</b>	NDA102EC1, NDA102FC1 NDA103EC1, NDA103FC1
<b>NuMicro® M23 Family</b>	<b>M251</b>	M251FC2AE, M251EC2AE, M251ZC2AE, M251SC2AE, M251LC2AE, M251SD2AE, M251LD2AE, M251ZD2AE, M251KE3AE, M251SE3AE, M251LE3AE, M251KG6AE, M251SG6AE, M251LG6AE, M252FC2AE, M252EC2AE, M252ZC2AE, M252SC2AE, M252LC2AE, M252SD2AE, M252LD2AE, M252ZD2AE, M252KE3AE, M252SE3AE, M252LE3AE, M252KG6AE, M252SG6AE, M252LG6AE, M254SD3AE, M254SE3AE, M254QD3AE, M254QE3AE, M254KD3AE, M254KE3AE, M256SD3AE, M256SE3AE, M256QD3AE, M256QE3AE, M256KD3AE, M256KE3AE, M258SD3AE, M258SE3AE, M258QD3AE, M258QE3AE, M258KD3AE, M258KE3AE, M253ZE3AE, M253LE3AE, M253LD3AE
	<b>NUC1262</b>	NUC1262NE4AE, NUC1262LE4AE, NUC1262SE4AE
	<b>NDA102</b>	NDA102SD2
	<b>M261</b>	M261KIAAE, M261SIAAE, M261ZIAAE, M262KIAAE, M262SIAAE, M262ZIAAE, M263KIAAE, M263SIAAE, M263ZIAAE
	<b>M2351</b>	M2351KIAAE, M2351SIAAE, M2351ZIAAE, M2351SFSIAAP
	<b>M2354</b>	M2354ES, M2354KJFAE, M2354SJFAE, M2354LJFAE
	<b>NuMicro® M4 Family</b>	<b>M451</b>
<b>M4521</b>		M4521SE6AE, M4521LE6AE
<b>M471</b>		M471KI8AE, M471VI8AE, M471VG7AE, M471QI8AE, M471QG7AE, M471R1E6AE, M471R1D6AE, M471SE6AE, M471SD6AE, M471MD6AE
<b>M479</b>		M479SG8AEE, M479LG8AEE, M479NG8AEE
<b>M480</b>		M481SIDAE, M481LIDAE, M481ZIDAE, M482KIDAE, M482SIDAE, M482LIDAE, M482ZIDAE, M483KIDAE, M483SIDAE, M485KIDAE, M485SIDAE, M485LIDAE, M487JIDAE, M487KIDAE, M487SIDAE,

		M487KMCAN, M481SGCAE, M481SGCAE2A, M481LGCAE, M481LE8AE, M481ZGCAE, M481ZE8AE, M482KGCAE, M482SGCAE, M482SE8AE, M482LGCAE, M482LE8AE, M482ZGCAE, M482ZE8AE, M483KGCAE, M483SGCAE, M483SE8AE, M483KGCAE2A, M483SGCAE2A
	<b>NUC400</b>	NUC472HI8AE, NUC472HG8AE, NUC472JI8AE, NUC472JG8AE, NUC472KI8AE, NUC472KG8AE, NUC472VI8AE, NUC472VG8AE, NUC442JI8AE, NUC442JG8AE, NUC442KI8AE, NUC442KG8AE, NUC442VI8AE, NUC442VG8AE, NUC442RI8AE, NUC442RG8AE
	<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, NM1220EBKO, NM1234Y, NM1232Y, NM1233D, NM1233Y
	<b>NM1240</b>	NM1243D48, NM1243Y48, NM1243Y NM1244D48, NM1244Y48, NM1244Y, NM18407Y
	<b>NM1320</b>	NM1320LC2AE
	<b>NM1330</b>	NM1330LC1AE, NM1330LD2AE
	<b>NM1500</b>	NM1510LC1AE, NM1520LC2AE, NM1520LD2AE, NM1520RC2AE, NM1520RD2AE, NM1530VD3AE, NM1530VE3AE, NM1530LE3AE
	<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
<b>ARM® Cortex®-M7 MCUs</b>	<b>KM1M7AF0</b>	KM1M7AF00N/M/K, KM1M7AF02N/M/K
	<b>KM1M7AF5</b>	KM1M7AF50N/M/K, KM1M7AF52N/M/K
	<b>KM1M7BF0</b>	KM1M7BF00N/M/K, KM1M7BF02N/M/K
<b>Audio Control</b>	<b>I94000</b>	I94124A, I94123A, I94121A, I94120A, I94114A, I94113A, I94111A, I94110A, I94134A, I94133A, I94131A, I94130A, I94124B, I94123B, I94113B, I94124C, I94123C, I94113C, I94124E, I94124D, I94124P, I94124N, I94124G, I94124S, I94124Z, I94100A, I941R00A
	<b>I9160</b>	ISD9160, ISD9160, ISD9140, ISD9130, ISD9160V, ISD9160I, ISD9160S, ISD9160C, ISD9160C2, ISD9160T, ISD9145

<b>I91300</b>	I91361, I91361C, I91331
<b>I91200</b>	I91260, I91260C, I91230, I91230C, I91260B, I91260G, I91230G, I91230P
<b>I91000</b>	I91032F, I91032C, I91032T
<b>I91500</b>	I91500
<b>N569S</b>	N569S250, N569S500, N569S750, N569S1K0, N569S1K5, N569S2K0, N569S3K0, N569S4K0, N569S8K0, N569SAK0, N569S251, N569S501, N569S751, N569S1K1, N569S1K6, N569S2K1, N569S3K1, N569S4K1, N569S8K1, N569SAK1, N569SBK2, N569S502, N569SAK2
<b>N569J</b>	N569J502L, N569J1K0L, N569J2K0L, N569J4K0L
<b>N570</b>	N570F064, N570C064, N570B12, N570H064, N570HC64
<b>N570J</b>	N570J08AL, N570J16AL, N570J32AL, N570J04DL, N570J08DL, N570J16DL, N570J32DL, N570J64DL, N570J131GL, N570J256GR, N570J512GR, N570J01GR, N570J08DF, N570J16DF, N570J09DF
<b>N570S</b>	N570S04A, N570S08A, N570S16A, N570S32A, N570S64A, N570S128, N570SC04, N570SC08, N570SC16, N570SC32, N570SC64, N570SCA2, N570S04B, N570S08B, N570S16B, N570S32B, N570S64B, N570S129, N570SC05, N570SC09, N570SC17, N570SC33, N570SC65, N570SCA3, N570S256, N570S130
<b>N571</b>	N571P032
<b>N572</b>	N572F064, N572F065, N572F072, N572C065, N572C072, N572S08A, N572S16A, N572S32A, N572S64A, N572SC08, N572SC16, N572SC32, N572S6C4, N572U08A, N572U16A, N572U32A, N572U64A, N572U128, N572S08B, N572S16B, N572S32B, N572S64B, N572SC09, N572SC17, N572SC33, N572S6C5, N572U08B, N572U16B, N572U32B, N572U64B, N572U129
<b>N574</b>	N574F256, N574F512
<b>N575</b>	N575C145, N575F145, N575A145, N575S08A, N575S16A, N575S32A, N575S64A, N575S08B, N575S16B, N575S32B, N575S64B

## 4 Resources

Website	Details
<a href="https://www.nuvoton.com/tool-and-software/software-development-tool/">NuTool on nuvoton.com</a>	<a href="https://www.nuvoton.com/tool-and-software/software-development-tool/">https://www.nuvoton.com/tool-and-software/software-development-tool/</a> <ul style="list-style-type: none"> <li>• Download the latest NuTool installation file.</li> <li>• View the NuTool revision history.</li> </ul>
<a href="https://github.com/OpenNuvoton/Nuvoton_Tools">NuTool on GitHub</a>	<a href="https://github.com/OpenNuvoton/Nuvoton_Tools">https://github.com/OpenNuvoton/Nuvoton_Tools</a> <ul style="list-style-type: none"> <li>• Check the open source example code of NuTool for easier development.</li> </ul>

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