# NuTool - PinView
# Revision History

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## 1    Revision History

| Version | Release Date | Description |
|---------|--------------|-------------|
| 3.05 | 2020/12/4 | • Added supported microcontroller:<br>– NuMicro M0 Family: M031TE3AE. |
| 3.04 | 2020/9/24 | • Added supported microcontroller:<br>– NuMicro M0 Family: MINI54FHC, NUC029NAN and NDA102 series.<br>– NuMicro M23 Family: M2351SFSIAAP.<br>– NuMicro M4 Family: M482K and M4TK series. |
| 3.03 | 2020/7/17 | • Added supported microcontroller:<br>– NuMicro M0 Family:NUC131LC2AEU, NUC131SC2AEU, NUC131LD2AEU, NUC131SD2AEU, NUC029MDE, M030FD2AE, M031BT, M071 series, M030G series, M0A21 series, M0515 and NM1240 series.<br>– NuMicro M23 Family: M258, M2354 series.<br>– NuMicro M4 Family: M487KMCAN, M479 and M471 series.<br>– NuMicro 8051 Family: ML56 series. |
| 3.02 | 2020/2/1 | • Added supported microcontroller:<br>– NuMicro M4 Family: M48x8AE, M48xCAE. |
| 3.01 | 2019/9/30 | • Supported NUC1311, M031 256KB/512KB, M032C/D for NuMicro M0 series.<br>• Supported M2353 for NuMicro M23 series. |
| 3.00 | 2019/5/3 | • Added M480LD for Cortex M4 series.<br>• Added M261 for Cortex M23 series.<br>• Added NUC121WC2AE & NUC121Y25CN for Cortex M0 series. |
| 2.06 | 2019/02/26 | • Supported ML51 for NuMicro 8051 series.<br>• Supported M252 for NuMicro M23 series. |
| 2.05 | 2018/09/06 | • Supported Nu-Link2.<br>• Supported M031, M0519, NUC2201, NM1120, NUC1261 for NuMicro M0 series.<br>• Supported NUC029DE/EE/GE for NuMicro M0 series.<br>• Supported M4521 for NuMicro M4 series. |
| 2.04.6725 | 2018/04/03 | • Supported NM18101ZCAE QFN33 package. |
| 2.03.6674 | 2017/12/11 | • Supported Mini57 for NuMicro M0 series.<br>• Supported M2351 for NuMicro M23 series.<br>• Added a new mode that shows only the selected pin function. |
| 2.02.6629 | 2017/06/23 | • Supported M480 for NuMicro M4 series. |

| 2.01.6592 | 2017/01/13 | • Supported NUC121, NUC125, NUC126 and M0564 series. |
|---|---|---|
| 2.00.6561 | 2016/07/22 | • Updated Nu-Link firmware version to v6561. |
| 1.31.6535 | 2016/02/01 | • Primary release version. |

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## 2 Supported Debugger and Programmer

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

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### 3 Supported Microcontroller

| Product Line | Series | Part Number |
|---|---|---|
| **NuMicro® 8051 Family** | **ML51** | ML51BB9AE, ML51DB9AE, ML51EB9AE, ML51EC0AE, ML51FB9AE, ML51LD1AE, ML51OB9AE, ML51PB9AE, ML51PC0AE, ML51SD1AE, ML51TB9AE, ML51TC0AE, ML51TD1AE, ML51UB9AE, ML51UC0AE, ML51XB9AE, ML54LD1AE, ML54MD1AE, ML54SD1AE, ML56LD1AE, ML56MD1AE, ML56SD1AE |
| **NuMicro® M0 Family** | **M030** | M030FD2AE, M030LD2AE, M030TD2AE |
| | **M030G** | M030GGC0AE, M030GGC1AE, M030GGD1AE, M030GTC0AE, M030GTC1AE, M030GTD1AE |
| | **M031** | M031BTYD2AN, M031BTYE3AN, M031EB0AE, M031EC1AE, M031FB0AE, M031FC1AE, M031KG6AE, M031KG8AE, M031KIAAE, M031LC2AE, M031LD2AE, M031LE3AE, M031LG6AE, M031LG8AE, M031SC2AE, M031SD2AE, M031SE3AE, M031SG6AE, M031SG8AE, M031SIAAE, M031TB0AE, M031TC1AE, M031TD2AE, M031TE3AE |
| | **M032** | M032EC1AE, M032FC1AE, M032KG6AE, M032KG8AE, M032KIAAE, M032LC2AE, M032LD2AE, M032LE3AE, M032LG6AE, M032LG8AE, M032SE3AE, M032SG6AE, M032SG8AE, M032SIAAE, M032TC1AE, M032TD2AE |
| | **M051** | M0516LAN, M0516LBN, M0516LDE, M0516LDN, M0516ZAN, M0516ZBN, M0516ZDE, M0516ZDN, M052LAN, M052LBN, M052LDE, M052LDN, M052ZAN, M052ZBN, M052ZDE, M052ZDN, M054LAN, M054LBN, M054LDE, M054LDN, M054ZAN, M054ZBN, M054ZDE, M054ZDN, M058LAN, M058LBN, M058LDE, M058LDN, M058ZAN, M058ZBN, M058ZDE, M058ZDN |
| | **M0515** | M0515LDE |
| | **M0518** | M0518LC2AE, M0518LD2AE, M0518SC2AE, M0518SD2AE |
| | **M0519** | M0519LD3AE, M0519LE3AE, M0519SD3AE, M0519SE3AE, M0519VE3AE |
| | **M0564** | M0564LE4AE, M0564LG4AE, M0564SE4AE, M0564SG4AE, M0564VG4AE |
| | **M058S** | M058SFAN, M058SLAN, M058SSAN, M058SZAN |
| | **M071** | M071MC2AE, M071MD2AE, M071QE4AE, M071QG4AE, M071R1D3AE, M071R1E3AE, M071SD3AE, M071SE3AE, M071VG4AE |
| | **M0A21** | M0A21EB1AC, M0A21EC1AC, M0A21OB1AC, M0A21OC1AC, M0A23EC1AC, M0A23OC1AC |
| | **Mini51** | MINI51FDE, MINI51LAN, MINI51LDE, MINI51TAN, MINI51TDE, MINI51ZAN, MINI51ZDE, MINI52FDE, MINI52LAN, MINI52LDE, MINI52TAN, MINI52TDE, MINI52ZAN, MINI52ZDE, MINI54FDE, MINI54FHC, MINI54LAN, MINI54LDE, MINI54TAN, MINI54TDE, MINI54ZAN, MINI54ZDE |
| | **Mini55** | MINI55LDE, MINI55TDE, MINI55ZDE |
| | **Mini57** | MINI57EDE, MINI57FDE, MINI57TDE, MINI57XDE |
| | **Mini58** | MINI58FDE, MINI58LDE, MINI58TDE, MINI58ZDE |

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|---|---|---|
| **Nano100** | NANO100KD3BN, NANO100KE3BN, NANO100LC2AN, NANO100LC2BN, NANO100LD2AN, NANO100LD2BN, NANO100LD3AN, NANO100LD3BN, NANO100LE3BN, NANO100SC2AN, NANO100SC2BN, NANO100SD2AN, NANO100SD2BN, NANO100SD3AN, NANO100SD3BN, NANO100SE3BN, NANO100VD2AN, NANO100VD3AN, NANO100ZC2AN, NANO100ZD2AN, NANO100ZD3AN | |
| **Nano102** | NANO102LB1AN, NANO102LC2AN, NANO102SC2AN, NANO102ZB1AN, NANO102ZC2AN | |
| **Nano103** | NANO103LD3AE, NANO103SD3AE, NANO103ZD3AE | |
| **Nano110** | NANO110KC2BN, NANO110KD2BN, NANO110KD3BN, NANO110KE3BN, NANO110RC2BN, NANO110RD2BN, NANO110RD3BN, NANO110SC2BN, NANO110SD2BN, NANO110SD3BN, NANO110SE3BN | |
| **Nano112** | NANO112LB1AN, NANO112LC2AN, NANO112RB1AN, NANO112RC2AN, NANO112SB1AN, NANO112SC2AN, NANO112VC2AN | |
| **Nano120** | NANO120KD3BN, NANO120KE3BN, NANO120LC2AN, NANO120LC2BN, NANO120LD2AN, NANO120LD2BN, NANO120LD3AN, NANO120LD3BN, NANO120LE3BN, NANO120SC2AN, NANO120SC2BN, NANO120SD2AN, NANO120SD2BN, NANO120SD3AN, NANO120SD3BN, NANO120SE3BN, NANO120VD2AN, NANO120VD3AN, NANO120ZC2AN, NANO120ZD2AN, NANO120ZD3AN | |
| **Nano130** | NANO130KC2BN, NANO130KD2BN, NANO130KD3BN, NANO130KE3BN, NANO130SC2BN, NANO130SD2BN, NANO130SD3BN, NANO130SE3BN | |
| **NDA102** | NDA102EC1, NDA102FC1, NDA103EC1, NDA103FC1 | |
| **NUC029** | NUC029FAE, NUC029KGE, NUC029LAN, NUC029LDE, NUC029LEE, NUC029LGE, NUC029MDE, NUC029NAN, NUC029SDE, NUC029SEE, NUC029SGE, NUC029TAE, NUC029TAN, NUC029ZAN | |
| **NUC100** | NUC100LC1DN, NUC100LD1DN, NUC100LD2DN, NUC100LD3AN, NUC100LD3DN, NUC100LE3AN, NUC100LE3DN, NUC100RC1DN, NUC100RD1DN, NUC100RD2DN, NUC100RD3AN, NUC100RD3DN, NUC100RE3AN, NUC100RE3DN, NUC100VD2AN, NUC100VD2DN, NUC100VD3AN, NUC100VD3DN, NUC100VE3AN, NUC100VE3DN, NUC120LC1DN, NUC120LD1DN, NUC120LD2DN, NUC120LD3AN, NUC120LD3DN, NUC120LE3AN, NUC120LE3DN, NUC120RC1DN, NUC120RD1DN, NUC120RD2DN, NUC120RD3AN, NUC120RD3DN, NUC120RE3AN, NUC120RE3DN, NUC120VD2AN, NUC120VD2DN, NUC120VD3AN, NUC120VD3DN, NUC120VE3AN, NUC120VE3DN | |
| **NUC121** | NUC121LC2AE, NUC121SC2AE, NUC121WC2AE, NUC121Y25CN, NUC121ZC2AE | |
| **NUC122** | NUC122LC1AN, NUC122LD2AN, NUC122SC1AN, NUC122SD2AN, NUC122ZC1AN, NUC122ZD2AN | |
| **NUC123** | NUC123LC2AE1, NUC123LC2AN1, NUC123LD4AE0, NUC123LD4AN0, NUC123SC2AE1, NUC123SC2AN1, NUC123SD4AE0, NUC123SD4AN0, NUC123ZC2AE1, NUC123ZC2AN1, NUC123ZD4AE0, NUC123ZD4AN0 | |
| **NUC125** | NUC125LC2AE, NUC125SC2AE, NUC125ZC2AE | |
| **NUC126** | NUC126LE4AE, NUC126LG4AE, NUC126NE4AE, NUC126SE4AE, NUC126SG4AE, | |

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| | | NUC126VG4AE |
| | **NUC1261** | NUC1261LE4AE, NUC1261LG4AE, NUC1261SE4AE, NUC1261SG4AE |
| | **NUC130** | NUC130LC1CN, NUC130LD2CN, NUC130LE3CN, NUC130RC1CN, NUC130RD2CN, NUC130RE3CN, NUC130VE3CN |
| | **NUC131** | NUC131LC2AE, NUC131LC2AEU, NUC131LD2AE, NUC131LD2AEU, NUC131SC2AE, NUC131SC2AEU, NUC131SD2AE, NUC131SD2AEU |
| | **NUC1311** | NUC1311LC2AE, NUC1311LD2AE |
| | **NUC140** | NUC140LC1CN, NUC140LD2CN, NUC140LE3CN, NUC140RC1CN, NUC140RD2CN, NUC140RE3CN, NUC140VE3CN |
| | **NUC200** | NUC200LC2AN, NUC200LD2AN, NUC200LE3AN, NUC200SC2AN, NUC200SD2AN, NUC200SE3AN, NUC200VE3AN, NUC220LC2AN, NUC220LD2AN, NUC220LE3AN, NUC220SC2AN, NUC220SD2AN, NUC220SE3AN, NUC220VE3AN |
| | **NUC2201** | NUC2201LE3AE, NUC2201SE3AE |
| | **NUC230** | NUC230LC2AE, NUC230LD2AE, NUC230LE3AE, NUC230SC2AE, NUC230SD2AE, NUC230SE3AE, NUC230VE3AE |
| | **NUC240** | NUC240LC2AE, NUC240LD2AE, NUC240LE3AE, NUC240SC2AE, NUC240SD2AE, NUC240SE3AE, NUC240VE3AE |
| **NuMicro® M23 Family** | **M2351** | M2351KIAAE, M2351SFSIAAP, M2351SIAAE, M2351ZIAAE |
| | **M2354** | M2354KJFAE, M2354LJFAE, M2354SJFAE |
| | **M251** | M251EC2AE, M251FC2AE, M251KE3AE, M251KG6AE, M251LC2AE, M251LD2AE, M251LE3AE, M251LG6AE, M251SC2AE, M251SD2AE, M251SE3AE, M251SG6AE, M251ZC2AE, M251ZD2AE, M252EC2AE, M252FC2AE, M252KE3AE, M252KG6AE, M252LC2AE, M252LD2AE, M252LE3AE, M252LG6AE, M252SC2AE, M252SD2AE, M252SE3AE, M252SG6AE, M252ZC2AE, M252ZD2AE, M253LD3AE, M253LE3AE, M253ZE3AE, M254KD3AE, M254KE3AE, M254PD3AE, M254PE3AE, M254SD3AE, M254SE3AE, M256KD3AE, M256KE3AE, M256PD3AE, M256PE3AE, M256SD3AE, M256SE3AE, M258KD3AE, M258KE3AE, M258PD3AE, M258PE3AE, M258SD3AE, M258SE3AE |
| | **M261** | M261KIAAE, M261SIAAE, M261ZIAAE, M262KIAAE, M262SIAAE, M262ZIAAE, M263KIAAE, M263SIAAE, M263ZIAAE |
| | **NDA102** | NDA102SD2 |
| **NuMicro® M4 Family** | **M451** | M451LC3AE, M451LD3AE, M451LE6AE, M451LG6AE, M451MLC3AE, M451MLD3AE, M451MLE6AE, M451MLG6AE, M451RC3AE, M451RD3AE, M451RE6AE, M451RG6AE, M451VE6AE, M451VG6AE, M452LC3AE, M452LD3AE, M452LE6AE, M452LG6AE, M452RD3AE, M452RE6AE, M452RG6AE, M453LC3AE, M453LD3AE, M453LE6AE, M453LG6AE, M453RD3AE, M453RE6AE, M453RG6AE, M453VD3AE, M453VE6AE, M453VG6AE, M4LEDLE6AE, M4LEDLG6AE, M4LEDRE6AE, M4LEDRG6AE, M4TKLE6AE, M4TKLG6AE, M4TKRE6AE, M4TKRG6AE, M4TKVE6AE, M4TKVG6AE |
| | **M4521** | M4521LE6AE, M4521SE6AE |
| | **M471** | M471KI8AE, M471MD6AE, M471QG7AE, M471QI8AE, M471R1D6AE, M471R1E6AE, |

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|---|---|---|
| | | M471SD6AE, M471SE6AE, M471VG7AE, M471VI8AE |
| | **M479** | M479LG8AEE, M479NG8AEE, M479SG8AEE |
| | **M480** | M481LE8AE, M481LGCAE, M481LIDAE, M481SGCAE, M481SGCAE2A, M481SIDAE, M481ZE8AE, M481ZGCAE, M481ZIDAE, M482KGCAE, M482KIDAE, M482LE8AE, M482LGCAE, M482LIDAE, M482SE8AE, M482SGCAE, M482SIDAE, M482ZE8AE, M482ZGCAE, M482ZIDAE, M483KGCAE, M483KGCAE2A, M483KIDAE, M483SE8AE, M483SGCAE, M483SGCAE2A, M483SIDAE, M485KIDAE, M485LIDAE, M485SIDAE, M487JIDAE, M487KIDAE, M487KMCAN, M487SIDAE |
| | **NUC400** | NUC442JG8AE, NUC442JI8AE, NUC442KG8AE, NUC442KI8AE, NUC442RG8AE, NUC442RI8AE, NUC442VG8AE, NUC442VI8AE, NUC472HG8AE, NUC472HI8AE, NUC472JG8AE, NUC472JI8AE, NUC472KG8AE, NUC472KI8AE, NUC472VG8AE, NUC472VI8AE |
| | **NUC505** | NUC505DL13Y, NUC505DLA, NUC505DS13Y, NUC505DSA, NUC505YLA, NUC505YLA2Y, NUC505YO13Y |
| **Motor Control** | **NM1100** | NM1100FBAE, NM1100XBAE |
| | **NM1120** | NM1120EC1AE, NM1120FC1AE, NM1120XC1AE, NM1120ZC1AE |
| | **NM1200** | NM1200LBAE, NM1200TBAE, NM1200ZBAE |
| | **NM1500** | NM1510LC1AE, NM1520LC2AE, NM1520LD2AE, NM1520RC2AE, NM1520RD2AE, NM1530VD3AE, NM1530VE3AE |
| | **NM1810** | NM18101Y |

## 4 Resources

| Website | Details |
|---|---|
| **NuTool** on **nuvoton.com** | https://www.nuvoton.com/tool-and-software/software-development-tool/nutool/ |
| | • Download the latest NuTool installation file.<br>• View the NuTool revision history. |
| **NuTool** on **GitHub** | https://github.com/OpenNuvoton/Nuvoton_Tools |
| | • Check the open source example code of NuTool for easier development. |

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