

## MM32 Series Programmer SupportList

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### 1 Introduction

MM32 series are based on the high-performance ARM® Cortex-M0®/M0+/M3 and Armv-8 architecture "Star" STAR-MC1 as the core, using standard SWD and JTAG debugging interfaces for programming and debugging, which has been supported by many manufacturers.

## 2 Programmer manufacturers list

Table 2-1 Manufacturer programmer model

3 <sup>rd</sup> Party	Supported programmer	Supported MM32 series	Support tools
<b>Icworkshop</b>	<ul style="list-style-type: none"> <li>● PWLINK2</li> <li>● PW200</li> <li>● PW300</li> </ul>	MM32F031, MM32F103, MM32L0, MM32L3, MM32F0010, MM32F0020, MM32A0140, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F0160, MM32F3270, MM32F5270, MM32F5280(not support QSPI), MM32L0130, MM32L0020, MM32G0140, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32F5330, MM32G0140, MM32SPIN0230, MM32G0001, MM325230, MM32SPIN030C, MM32SPIN080C, MM32G5330, MM32A0160, MM32F0120	Adapter board Auxiliary tools:"ICWKEY"
<b>Hilosystems</b>	<ul style="list-style-type: none"> <li>● ALL-200G</li> <li>● ALL-200</li> </ul>	MM32F031, MM32F103, MM32L0, MM32L3, MM32F0010, MM32F0020, MM32F003, MM32F0130, MM32SPIN05, MM32SPIN160C, MM32F0160, MM32A0140, MM32G0001, MM32SPINEBK, MM32SPIN0110	Dedicated adapter mount: UHD-MM32SPIN-QN20/32
<b>SINYO</b>	<ul style="list-style-type: none"> <li>● SYP-ST268E0</li> <li>● SYP-ST448E/428E0</li> <li>● SYP-ST0508B001</li> <li>● SYP-ST1088D002</li> </ul>	MM32F0010, MM32F0020, MM32A0140, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F0160, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32L0020, MM32G0140, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32SPIN160C, MM32SPIN223C, MM32SPIN222C, MM32SPIN360C, MM32SPIN560C, MM32SPIN37PSD, MM32SPIN422C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32F5330, MM32G0140, MM32G0160, MM32SPIN0230, MM32G0001, MM32SPIN030C, MM32SPIN080C, MM32A0160, MM32SPIN023C, MM32SPINEBK, MM32G0020, MM32F0120	Programon the board: <a href="http://www.xymcu.com">http://www.xymcu.com</a>

3 <sup>rd</sup> Party	Supported programmer	Supported MM32 series	Support tools
ZLG	<ul style="list-style-type: none"> <li>P800isp (Board)</li> <li>P800pro (Pedestal)</li> </ul>	MM32F031, MM32F103, MM32L0, MM32L3, MM32F0010, MM32F0020, MM32F0140, MM32SPIN05, MM32SPIN06, MM32SPIN2x, MM32F0130 (Pedestal)	<a href="https://tools.zlg.cn/data/upload/software/Tools/P500_P800_All_Update.zip">https://tools.zlg.cn/data/upload/software/Tools/P500_P800_All_Update.zip</a> Matches a dedicatedsocket
Xeltek	<ul style="list-style-type: none"> <li>SUPERPRO-7500</li> <li>SUPERPRO-7504N</li> <li>SB02/3/4/5/5E/5X</li> <li>SUPERPRO-IS426</li> <li>SUPERPRO-IS01</li> </ul>	MM32F031, MM32F103, MM32L0, MM32L3, MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32F5270, MM32F5280(not support QSPI), MM32L0130, MM32SPIN0280, MM32SPIN040C, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN320B, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32G0140, MM32G0160, MM32SPIN0230, MM32G0001, MM32SPIN030C, MM32SPIN080C, MM32G5330, MM32F5330, MM32F5230, MM32A0160, MM32SPINEBK, MM32SPIN023C, MM32G0020, MM32SPIN0110, MM32F0120	Matches a dedicatedsocket: <a href="https://www.xeltek-cn.com/download.html">https://www.xeltek-cn.com/download.html</a>
Sinaen	<ul style="list-style-type: none"> <li>Universal IC programmer S400</li> <li>Fully automatic IC programmer A300</li> <li>Fully automatic IC programmer A600</li> <li>Fully automatic IC programmer A900</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F0160, MM32F3270, MM32L0130, MM32L0020, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32F0160, MM32L0020, MM32A0140, MM32F5330, MM32G0140, MM32G0160, MM32SPIN0230, MM32G0001, MM32F5230, MM32SPIN030C, MM32SPIN080C, MM32G5330, MM32A0160, MM32SPIN023C, MM32SPINEBK	<ul style="list-style-type: none"> <li>Power cord, network cable</li> <li>Auto Programmer host, Tape reel, Programmer host</li> </ul>
ACROVIEW	<ul style="list-style-type: none"> <li>AP8000</li> </ul>	MM32F0010, MM32F003, MM32F0040, MM32F0130, MM32SPIN0280, MM32SPIN05, MM32SPIN2x, MM32F0020, MM32G0140, MM32G0160, MM32SPIN0230, MM32F0140, MM32F0160, MM32A0160, MM32F0040, MM32F3270, MM32SPIN0280, MM32F5270, MM32F5280, MM32L0130, MM32L0020,	<a href="https://www.acroview.com/Universal-programmer/287.html">https://www.acroview.com/Universal-programmer/287.html</a>

3 <sup>rd</sup> Party	Supported programmer	Supported MM32 series	Support tools
		MM32A0140, MM32F5330, MM32SPIN0230, MM32G0001,	
<b>xwopen</b>	<ul style="list-style-type: none"> <li>XW16PRO</li> </ul>	MM32F031,MM32F103, MM32L0, MM32L3, MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32F5270, MM32L0130, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN222C, MM32SPIN360C, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32F5330, MM32G0140, MM32G0160, MM32SPIN0230, MM32G0001, MM32F5230, MM32SPIN030C, MM32SPIN080C, MM32A0160, MM32G5330, MM32G0020, MM32F0120	<a href="http://www.xwopen.com/WpfStandaloneProgrammer.html">http://www.xwopen.com/WpfStandaloneProgrammer.html</a>
<b>ARMFLY</b>	<ul style="list-style-type: none"> <li>H7-TOOL</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32SPIN160C, MM32SPIN360C, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32G0140, MM32F5330, MM32G0160, MM32SPIN0230, MM32G0001, MM32F5230, MM32SPIN030C, MM32SPIN080C, MM32SPINEBK, MM32G5330, MM32A0160,	Adapter board: <a href="https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-18210351016.10.1f4d68c7TV0yRn&amp;id=666129013064">https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-18210351016.10.1f4d68c7TV0yRn&amp;id=666129013064</a>
<b>RX-prog</b>	<ul style="list-style-type: none"> <li>RX-180</li> <li>RX-480</li> <li>RX-880</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F031, MM32F103, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32L0, MM32SPIN0280, MM32SPIN040C, MM32SPIN05, MM32SPIN07PF, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN2x, MM32SPIN320B, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN380C, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32F5330, MM32G0140,	<a href="http://test.rx-prog.com/download">http://test.rx-prog.com/download</a>

3 <sup>rd</sup> Party	Supported programmer	Supported MM32 series	Support tools
		MM32SPIN0230 (not support data flash) , MM32G0160, MM32G0001, MM32F5230,  MM32SPIN030C, MM32SPIN080C, MM32A0160, MM32SPINEBK, MM32SPIN023C (not support data flash)	
<b>GaleComm</b>	<ul style="list-style-type: none"> <li>● FT200-CN</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32SPIN0280, MM32SPIN05, MM32SPIN06, MM32SPIN07PF, MM32SPIN2x, MM32F0160, MM32L0020, MM32A0140, MM32G0140, MM32G0160	PC software: FTUer-V2.96 Hardware: FT200-CN
<b>amo</b>	<ul style="list-style-type: none"> <li>● K216</li> <li>● K202C</li> <li>● K204</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32SPIN0280, MM32SPIN040C, MM32SPIN05, MM32SPIN07PF, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN2x, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN380C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32G0140, MM32G0160, MM32SPIN0230 (not support Data flash), MM32G0001	<a href="http://www.amomcu.cn/download/">http://www.amomcu.cn/download/</a>
<b>PE Micro</b>	<ul style="list-style-type: none"> <li>● Multilink</li> <li>● Multilink FX</li> <li>● Cyclone Programmings</li> </ul>	MM32F0130, MM32F0140, MM32SPIN05, MM32SPIN06, MM32SPIN07PF, MM32SPIN25, MM32F0020, MM32SPIN27,	Program on board
<b>XINGYI</b>	<ul style="list-style-type: none"> <li>● MiniPro-V2</li> <li>● P100-V2</li> <li>● P400</li> </ul>	MM32F0010, MM32F0020, MM32A0140, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F0160, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32G0140, MM32SPIN0280, MM32SPIN05, MM32SPIN07PF, MM32SPIN040C, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32A0140, MM32F5330, MM32G0140, MM32SPIN0230(not support data flash), MM32G0001	<a href="http://www.openedv.com/docs/tool/programmer/index.html">http://www.openedv.com/docs/tool/programmer/index.html</a>

3 <sup>rd</sup> Party	Supported programmer	Supported MM32 series	Support tools
<b>MaxWiz</b>	<ul style="list-style-type: none"> <li>WizPro200MG</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F3270, MM32F5270, MM32F5280, MM32L0130, MM32SPIN0280, MM32SPIN05, MM32SPIN06, MM32SPIN07PF, MM32SPIN160C, MM32SPIN222C, MM32SPIN223C, MM32SPIN2x, MM32SPIN320B, MM32SPIN360C, MM32SPIN37PSD, MM32SPIN422C, MM32SPIN560C, MM32SPIN580C, MM32F0160, MM32L0020, MM32A0140, MM32G0140, MM32G0160, MM32G5330, MM32SPINEBK, MM32F5330, MM32F5230, MM32A0160  MM32SPIN0230\MM32SPIN080C\MM32SPIN030C\MM 32SPIN023C (not support datat flash) ,	<a href="http://www.maxwiz.com.cn/index/download?id=21">http://www.maxwiz.com.cn/index/download?id=21</a>
<b>wave-cn</b>	<ul style="list-style-type: none"> <li>JMaster3/L</li> </ul>	MM32F0010, MM32F0020, MM32F003, MM32F0040, MM32F0130, MM32F0270, MM32F0140, MM32F031, MM32F103, MM32F3270, MM32F5270, MM32L0130, MM32L0, MM32L3, MM32SPIN0280, MM32SPIN05, MM32SPIN06, MM32SPIN07PF, MM32SPIN2x, MM32F0160, MM32L0020, MM32A0140, MM32G0140	<a href="http://www.wave-cn.cn/download/Programmer/90.html">http://www.wave-cn.cn/download/Programmer/90.html</a>



Related products can contact the programmer manufacturer for purchase and support

### 3 Programmer purchase link

Table 3-1 Manufacturer Programmer purchase link

3 <sup>rd</sup> Party	Supported programmer model	Purchase link
<b>icworkshop</b>	<ul style="list-style-type: none"> <li>PWLINK2</li> <li>PW200</li> <li>PW300</li> </ul>	<a href="https://item.taobao.com/item.htm?id=657595440645">https://item.taobao.com/item.htm?id=657595440645</a> <a href="https://item.taobao.com/item.htm?spm=a1z10.1-c-s.w4004-24057373977.4.31d6596dzoGkld&amp;id=618820111522">https://item.taobao.com/item.htm?spm=a1z10.1-c-s.w4004-24057373977.4.31d6596dzoGkld&amp;id=618820111522</a>
<b>hilosystems</b>	<ul style="list-style-type: none"> <li>ALL-200G</li> <li>ALL-200</li> </ul>	Jay_L@ms1.hilosystems.com.tw Li Jie: 18662617293

3 <sup>rd</sup> Party	Supported programmer model	Purchase link
<b>XINYUAN</b>	<ul style="list-style-type: none"> <li>● SYP-ST268E0</li> <li>● SYP-ST448E/428E0</li> <li>● SYP-ST0508B001</li> <li>● SYP-ST1088D002</li> </ul>	<a href="https://item.taobao.com/item.htm?spm=a1z10.3-c.w4002-3583468686.20.6c7d538dPNNkQW&amp;id=618007531346">https://item.taobao.com/item.htm?spm=a1z10.3-c.w4002-3583468686.20.6c7d538dPNNkQW&amp;id=618007531346</a> <a href="https://item.taobao.com/item.htm?spm=a1z09.5.0.0.Hrht04&amp;id=521457129743&amp;u=2dagrtd027">https://item.taobao.com/item.htm?spm=a1z09.5.0.0.Hrht04&amp;id=521457129743&amp;u=2dagrtd027</a> <a href="https://item.taobao.com/item.htm?spm=a1z38n.10677092.0.0.594c1debzQVt4F&amp;id=585277850429">https://item.taobao.com/item.htm?spm=a1z38n.10677092.0.0.594c1debzQVt4F&amp;id=585277850429</a> <a href="https://item.taobao.com/item.htm?spm=a1z38n.10677092.0.0.594c1debxsYkKw&amp;id=577629685399">https://item.taobao.com/item.htm?spm=a1z38n.10677092.0.0.594c1debxsYkKw&amp;id=577629685399</a>
<b>xwopen</b>	<ul style="list-style-type: none"> <li>● XW16PRO</li> </ul>	<a href="https://item.taobao.com/item.htm?id=578188031913">https://item.taobao.com/item.htm?id=578188031913</a>
<b>ZLG</b>	<ul style="list-style-type: none"> <li>● P800isp (on board)</li> <li>● P800pro (on socket)</li> </ul>	Manager Wang: 18689430523, 020-28267976, wangminghui@zlg.cn
<b>xeltek</b>	<ul style="list-style-type: none"> <li>● SUPERPRO-7500</li> <li>● SUPERPRO-7504N</li> <li>● SB02/3/4/5/5E/5X</li> <li>● SUPERPRO-IS426</li> <li>● SUPERPRO-IS01</li> </ul>	TEL: 086-25-68161233 , 086-25-68161203 , 086-25-68161226, Sales02@xeltek-cn.com
<b>Sinaen</b>	<ul style="list-style-type: none"> <li>● Universal IC programmer S400</li> <li>● Fully automatic IC programmer A300</li> <li>● Fully automatic IC programmer A600</li> <li>● Fully automatic IC programmer A900</li> </ul>	Assistant Ms. Yang: 18112771728, S3@sinaen.ne
<b>XINGYI</b>	<ul style="list-style-type: none"> <li>● MiniPro-V2</li> <li>● P100-V2</li> <li>● P400</li> </ul>	<a href="https://openedv.taobao.com">https://openedv.taobao.com</a>
<b>安富莱 ARMPFLY</b>	<ul style="list-style-type: none"> <li>● H7-TOOL</li> </ul>	<a href="https://item.taobao.com/item.htm?spm=a1z09.8149145.0.0.42f9451btsyhng&amp;id=602704490583&amp;u=e8teau7fec0">https://item.taobao.com/item.htm?spm=a1z09.8149145.0.0.42f9451btsyhng&amp;id=602704490583&amp;u=e8teau7fec0</a>
<b>rx-prog</b>	<ul style="list-style-type: none"> <li>● RX-180</li> <li>● RX-480</li> <li>● RX-880</li> </ul>	<a href="https://item.taobao.com/item.htm?ft=t&amp;id=576650044688">https://item.taobao.com/item.htm?ft=t&amp;id=576650044688</a> <a href="https://item.taobao.com/item.htm?ft=t&amp;id=682052917600">https://item.taobao.com/item.htm?ft=t&amp;id=682052917600</a>

3 <sup>rd</sup> Party	Supported programmer model	Purchase link
<b>wave-cn</b>	<ul style="list-style-type: none"> <li>● JMaster3/L</li> </ul>	Sam.Ge MAIL: Sam.Ge@wave-cn.cn MB: 13815898603
<b>PE Micro</b>	<ul style="list-style-type: none"> <li>● Multilink</li> <li>● Multilink FX</li> <li>● Cyclone Programmers</li> </ul>	617-923-0053
<b>MaxWiz</b>	<ul style="list-style-type: none"> <li>● WizPro200MG</li> </ul>	<a href="https://shop100174242.taobao.com">https://shop100174242.taobao.com</a>
<b>GaleComm</b>	<ul style="list-style-type: none"> <li>● FT200-CN</li> </ul>	<a href="http://www.galecomm.com">www.galecomm.com</a>
<b>ACROVIEW</b>	<ul style="list-style-type: none"> <li>● AP8000</li> </ul>	<a href="https://www.acroview.com/">https://www.acroview.com/</a>
<b>amo</b>	<ul style="list-style-type: none"> <li>● K216</li> <li>● K202C</li> <li>● K204</li> </ul>	<a href="https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-15079397431.9.15ab44feAWIKGs&amp;id=562009991087">https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-15079397431.9.15ab44feAWIKGs&amp;id=562009991087</a> <a href="https://item.taobao.com/item.htm?spm=a21dvs.23580594.0.0.1d293d0dxxYrbR&amp;ft=t&amp;id=562328619618">https://item.taobao.com/item.htm?spm=a21dvs.23580594.0.0.1d293d0dxxYrbR&amp;ft=t&amp;id=562328619618</a> <a href="https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-15079397431.17.15ab44feAWIKGs&amp;id=642346862324">https://item.taobao.com/item.htm?spm=a1z10.3-c-s.w4002-15079397431.17.15ab44feAWIKGs&amp;id=642346862324</a>



## 4 Revision history

Table 4-1 Revision history

Date	Version	Records
2023/7/26	Rev 2.3	<ul style="list-style-type: none"> <li>● Added MM32F5330, MM32G0140, MM32G0160, MM32G0001, MM32F5230, MM32A0160, MM32G5330</li> <li>● Added MM32SPIN0230, MM32SPIN030C, MM32SPIN080C</li> </ul>
2023/9/26	Rev 2.4	<ul style="list-style-type: none"> <li>● Added MM32SPIN023C, MM32G0140(G0144)</li> <li>● Updated MM32F5330, MM32G0140, MM32G0160, MM32G0001, MM32F5230, MM32A0160, MM32G5330, MM32SPIN0230, MM32SPIN030C, MM32SPIN080C</li> </ul>
2024/8/30	Rev 2.5	<ul style="list-style-type: none"> <li>● Added MM32F0120, MM32SPINEBK, MM32G0020, MM32SPIN023C</li> <li>● Updated MM32F5330, MM32G0140, MM32G0160, MM32G0001, MM32F5230, MM32A0160, MM32G5330, MM32SPIN0230, MM32SPIN030C, MM32SPIN080C</li> </ul>