



Gowin_EMPU_M3 Software and Hardware Reference Design **Release Note**

RN924-1.1E, 07/16/2021

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Revision History

Date	Version	Description
04/03/2020	1.0E	Initial version published.
07/16/2021	1.1E	<ul style="list-style-type: none">● Known issues of read and write for SPI full-duplex fixed;● Known issues of GPIO initialization fixed;● The synthesis tool, SynplifyPro, deleted;● The version of FPGA and MCU software updated;● The reference design updated.

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1 About This Release

This release of Gowin_EMPU_M3 V1.0.1 SDK provides following items:

- Known issues of read and write for SPI full-duplex fixed;
- Known issues of GPIO initialization fixed;
- The synthesis tool, SynplifyPro, deleted;
- The version of FPGA and MCU software updated;
- The reference design updated.

Gowin_EMPU_M3 SDK is available at Gowin website. Parameters have been configured in Gowin_EMPU_M3 software and hardware reference designs. These reference designs can be used in ARM Keil MDK V5.26 and above or GOWIN MCU Designer (V1.1 and above), and Gowin Software (V1.9.8 Beta and above).

2 Function and Enhancement Summary

Gowin_EMPU_M3 IP functions and enhancement items are as follows:

Function	Description
Front-end synthesis tool: GowinSynthesis® V1.9.8 Beta and above	
Supports MCU IPs	<ul style="list-style-type: none"> ● Known issues of read and write for SPI full-duplex fixed; ● Known issues of GPIO initialization fixed; ● The synthesis tool, SynplifyPro, deleted; ● The version of FPGA and MCU software updated; ● The reference design updated.
Back-end placement & routing tool: Gowin_V1.9.8 Beta and above	
Software build and debug tool: ARM Keil MDK V5.26 and above GOWIN MCU Designer V1.1 and above	
Enhancements	–
New Devices Supported	GW2AN-55C

3 Platform Supported

The software supports the following platforms:

Windows	Windows 7/8/10 (32/64 bit) Windows XP (32 bit)
Linux	Centos 6.8/7.0/7.5 (64 bit) Ubuntu 18.04 LTS

4 Documents

The released IP manuals are listed in the table below. You can download the Gowin_EMPU_M3 manuals at Gowin website or read online.

Table 4-1 Documents List

Documents	
IPUG923 , Gowin_EMPU_M3 Hardware Design Reference Manual	Online, PDF
IPUG922 , Gowin_EMPU_M3 Software Programming Reference Manual	Online, PDF
IPUG921 , Gowin_EMPU_M3 Quick Design Reference Guide	Online, PDF
IPUG920 , Gowin_EMPU_M3 Serial Debugging Reference Manual	Online, PDF
IPUG919 , Gowin_EMPU_M3 IDE Software Reference Manual	Online, PDF
RN924, Gowin_EMPU_M3 Software and Hardware Reference Design Release Note	Online, PDF

