APM32F411

Errata Sheet

Version: V1.1

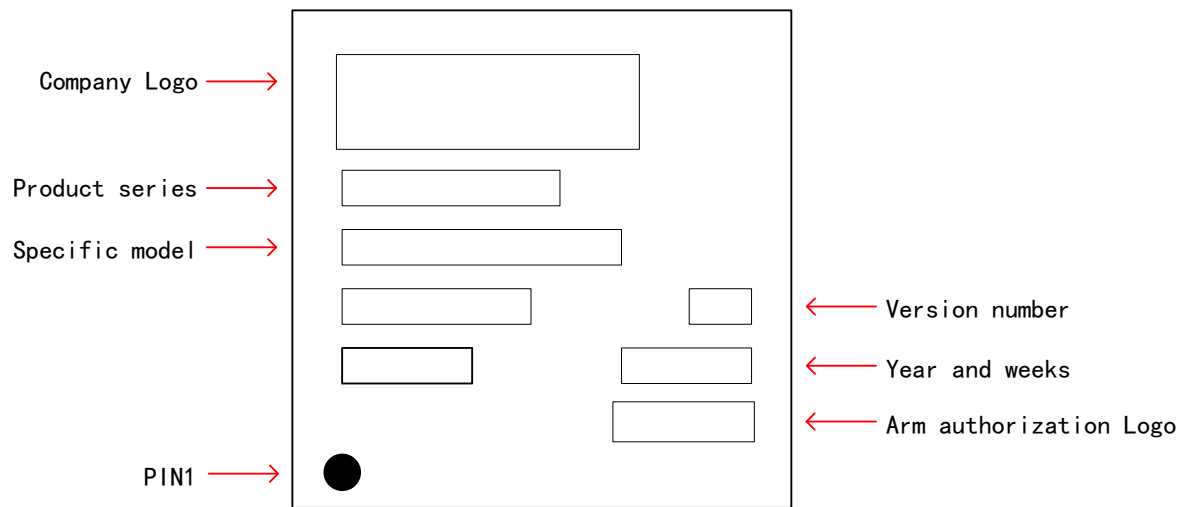# Contents

1 Introduction

This Manual mainly introduces the limitations of the APM32F411 series products during use. If you encounter the application scenarios described in the manual during the use of the product, please use the product according to the solutions provided in the manual; if no solution is provided, please avoid this application scenario.

2 Product Version and Silk Screen Printing Instructions

Figure 1 Product Version and Silk Screen Printing Instructions

3 Errata List

Table 1 Errata List

Category	Introduction	Product version A1
Flash	Read protection abnormality	√
ADC	ADC2 cannot output normally	√

Note: √ indicates present, × indicates not present.

4 Flash

4.1 Read protection abnormal

Description

When using ISP upgrade, part of the RAM will be occupied, leading to read protection abnormality.

Solutions

1. It is not recommended to use ISP upgrade.

2. If ISP upgrade is used, it is recommended to run code on FLASH.

5 ADC

5.1 ADC2 cannot output normally

Description

ADC1/2 use separate clocks ADC1_CLK and ADC2_CLK, respectively, but the handshake logic of TMRx trigger output is connected to ADC1_CLK. Therefore, when only ADC2_CLK is turned on and ADC1_CLK is turned off, the TMRx trigger output cannot be output normally.

Solutions

When the TRGO event of TMRx is used to trigger the ADC2 regular group acquisition channel, the ADC1 clock needs to be turned on simultaneously.

6 Revision History

Date	Version	Revision History
2023.11	1.0	New edition
2025.6	1.1	Add ADC errata

Statement

This manual is formulated and published by Zhuhai Geehy Semiconductor Co., Ltd. (hereinafter referred to as "Geehy"). The contents in this manual are protected by laws and regulations of trademark, copyright and software copyright. Geehy reserves the right to correct and modify this manual at any time. Please read this manual carefully before using the product. Once you use the product, it means that you (hereinafter referred to as the "users") have known and accepted all the contents of this manual. Users shall use the product in accordance with relevant laws and regulations and the requirements of this manual.

1. Ownership of rights

This manual can only be used in combination with chip products and software products of corresponding models provided by Geehy. Without the prior permission of Geehy, no unit or individual may copy, transcribe, modify, edit or disseminate all or part of the contents of this manual for any reason or in any form.

The "Geehy" or "Geehy" words or graphics with "®" or "TM" in this manual are trademarks of Geehy. Other product or service names displayed on Geehy products are the property of their respective owners.

2. No intellectual property license

Geehy owns all rights, ownership and intellectual property rights involved in this manual.

Geehy shall not be deemed to grant the license or right of any intellectual property to users explicitly or implicitly due to the sale and distribution of Geehy products and this manual.

If any third party's products, services or intellectual property are involved in this manual, Geehy shall not be deemed to authorize users to use the aforesaid third party's products, services or intellectual property, nor shall it be deemed to provide any form of guarantee for third-party products, services, or intellectual property, including but not limited to any non-infringement guarantee for third-party intellectual property, unless otherwise agreed in sales order or sales contract of Geehy.

3. Version update

Users can obtain the latest manual of the corresponding products when ordering Geehy products.

If the contents in this manual are inconsistent with Geehy products, the agreement in Geehy sales order or sales contract shall prevail.

4. Information reliability

The relevant data in this manual are obtained from batch test by Geehy Laboratory or cooperative third-party testing organization. However, clerical errors in correction or errors caused by differences in testing environment are unavoidable. Therefore, users should understand that Geehy does not bear any responsibility for such errors that may occur in this manual. The relevant data in this manual are only used to guide users as performance parameter reference and do not constitute Geehy's guarantee for any product performance.

Users shall select appropriate Geehy products according to their own needs, and effectively verify and test the applicability of Geehy products to confirm that Geehy products meet their own needs, corresponding standards, safety or other reliability requirements. If losses are caused to users due to the user's failure to fully verify and test Geehy products, Geehy will not bear any responsibility.

5. Compliance requirements

Users shall abide by all applicable local laws and regulations when using this manual and the matching Geehy products. Users shall understand that the products may be restricted by the export, re-export or other laws of the countries of the product suppliers, Geehy, Geehy distributors and users. Users (on behalf of itself, subsidiaries and affiliated enterprises) shall agree and undertake to abide by all applicable laws and regulations on the export and re-export of Geehy products and/or technologies and direct products.

6. Disclaimer

This manual is provided by Geehy on an "as is" basis. To the extent permitted by applicable laws, Geehy does not provide any form of express or implied warranty, including without limitation the warranty of product merchantability and applicability of specific purposes.

Geehy products are not designed, authorized, or guaranteed to be suitable for use as critical components in military, life support, pollution control, or hazardous substance management systems, nor are they designed, authorized, or guaranteed to be suitable for applications that may cause injury, death, property, or environmental damage in case of product failure or malfunction.

If the product is not labeled as "Automotive grade", it means it is not suitable for automotive applications. If the user's application of the product is beyond the specifications, application fields, and standards provided by Geehy, Geehy will assume no responsibility.

Users shall ensure that their application of the product complies with relevant standards, and the requirements of functional safety, information security, and environmental standards. Users are fully responsible for their selection and use of Geehy products. Geehy will bear no responsibility for any disputes arising from the subsequent design and use of Geehy products by users.

7. Limitation of liability

In any case, unless required by applicable laws or agreed in writing, Geehy and/or any third party providing this manual and the products on an "as is" basis shall not be liable for damages, including any general or special direct, indirect or collateral damages arising from the use or no use of this manual and the products (including without limitation data loss or inaccuracy, or losses suffered by users or third parties), which cover damage to personal safety, property, or environment, for which Geehy will not be responsible.

8. Scope of application

The information in this manual replaces the information provided in all previous versions of the manual.

Geehy Semiconductor Co.,Ltd.

◎ Bldg.1, No.83 Guangwan Street, Zhuhai, Guangdong, China   📞+86 0756 6299999   🌐 www.geehy.com