DA145xx Flash Selector Guide

This document shows an overview of supported Flash devices for the DA1453x and DA14585 Bluetooth IC's.

- DA1453x is referring to DA14531-00, DA14531-01, DA14530, DA14535 and DA14533
- The DA14531-00 is the main DA14531 device. The -00 is a new name to introduce the variant DA14531-01.
- The DA14531-01 is a ROM variant of the main DA14531-00. [3]
- The DA14535 is a DA14531 upgrade. [4]
- The DA14533 is optimized for automotive and industrial applications at higher temperatures, and it is rated as operating up to 105 ºC and compliant with the AEC-Q100 (Grade 2) standard. [5]

Contents

Contents **1**
Tables **1**
1. References **2**
2. List of Supported Renesas Flash Devices **3**
3. List of Supported Third-Party Flash Devices **4**
4. Revision History **5**

Tables

Table 1. Ordering information Renesas flash devices 3
Table 2. Ordering information third-party flash devices 4

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1. References

[1] AN-B-072, DA1453x Booting from OTP and Serial Interfaces, Application Note, Renesas Electronics

[2] AN-B-055, DA14585 interfacing with external memory, Application Note, Renesas Electronics.

[3] UM-B-117, DA14531 Getting Started with the Pro-Development Kit, Manual, Renesas Electronics.

[4] UM-B-165, DA14535 Getting Started with the Pro-Development Kit, Manual, Renesas Electronics.

[5] R19US0026EE0100, DA14533 Getting Started with the Pro-Development Kit, Manual, Renesas Electronics.

[6] UM-B-119, DA1453x/DA1458x SDK 6 Software Platform Reference, Manual. Renesas Electronics.

2. List of Supported Renesas Flash Devices

Table 1. Ordering information Renesas flash devices

Memory size	Flash device	DA1453x	DA14585
512 kBit	AT25DF512C	√	√
	AT25XE512C	√	√
1 Mbit	AT25DN011	√	√
	AT25DF011	√	√
	AT25XE011	√	√
	AT25EU0011A	√	√
2 Mbit	AT25EU0021A	√	√
	AT25DF021A	√	√
	AT25XE021A	√	√
4 Mbit	AT25XE041B	√	√
	AT25FF041A	√ **(1)**	√
	AT25XE041D	√ **(1)**	√
	AT25SF041B	√	√
	AT45DB041E	√	√
8 Mbit	AT25FF081A	√**(1)**	√
	AT25XE081D	√ **(1)**	√
32 Mbit	AT25SL321	√	√

Note 1 This requires a secondary loader in OTP for enabling Ultra Deep Power Down mode.

3. List of Supported Third-Party Flash Devices

Table 2. Ordering information third-party flash devices

Memory size	Flash device	Manufacturer	DA1453x	DA14585
512 kbit	MX25R512F	Macronix	√	√
1 Mbit	P25X10U	Puya	√	√
	P25Q10H	Puya	√	√
	GD25WD10CTIG	GigaDevice	√	√
	W25Q10RL	Winbond	√	√
	W25Q40RL	Winbond	√	√
2 Mbit	MX25R2035F	Macronix	√	√
	GD25VQ20C	GigaDevice	√	√
	GD25WD20CTIG	GigaDevice	√	√
	W25X20CL	Winbond	√	√
	W25X20CVUXSG **(2)**	Winbond	√	√
4 Mbit	GD25WD40CTIG	GigaDevice	√	√
	W25X40CL	Winbond	√	√
	W25Q40RL	Winbond	√	√

For additional information related to external memories, please see Ref [1] and Ref [2].

Note 2 The W25X20CVUXSG is qualified for automotive applications.

4. Revision History

Revision	Date	Description
1.13	Nov 03, 2026	Updated Table 1 and Table 2 to include AT25SF041B, W25Q40RL, W25Q10RL support on DA1453x
1.12	Jun 08, 2026	Updated Table 1 to include AT25DN011 support on DA1453x
1.11	Mar 20, 2025	Added support for DA14533.
1.10	Jan 30, 2025	Updated Table 1 (added AT25EU0011A) and Table 2 (added W25X20CVUXSG)
1.9	Jan 24, 2025	Converted into Renesas template.
1.8	Feb 13, 2024	Added support for DA14535.
1.7	May 31, 2022	Updated Table 1 (added AT25SL321) and Table 2 (added W25X40CL).
1.6	Jan 24, 2022	Rebranded to Renesas.
1.5	Nov 17, 2021	Updated Table 1.
1.4	Sep 28, 2021	Updated Table 1 (Add AT25EU0021A).
1.3	June 30, 2021	Updated hyperlinks.
1.2	Feb 15, 2021	Updated hyperlinks.
1.1	Nov 12, 2020	Updated Table 1.
1.0	Oct 22, 2020	Initial release.

STATUS DEFINITIONS

Status	Definition
DRAFT	The content of this document is under review and subject to formal approval, which may result in modifications or additions.
APPROVED or unmarked	The content of this document has been approved for publication.

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