

Application Note

DA145xx Flash Selector Guide

AN-B-088

Abstract

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

DA145xx Flash Selector Guide

1 List of Supported Dialog Semiconductor Flash Devices

Table 1: Ordering Information

Memory Size	Flash Device	DA1453x	DA14585
512 kBit	AT25DF512C	✓	✓
	AT25XE512C	✓	✓
1 Mbit	AT25DN011	-	✓
	AT25DF011	✓	✓
	AT25XE011	✓	✓
2 Mbit	AT25EU0021A	✓	✓
	AT25DF021A	✓	✓
	AT25XE021A	✓	✓
4 Mbit	AT25XE041B	✓	✓
	AT25FF041A	✓ (1)	✓
	AT25XE041D	✓ (1)	✓
	AT45DB041E	-	✓
8 Mbit	AT25FF081A	✓(1)	✓
	AT25XE081D	✓ (1)	✓
16 Mbit	AT25FF161A	✓ (1)	✓
	AT25XE161D	✓ (1)	✓
32 Mbit	AT25FF321A	✓ (1)	✓
	AT25XE321D	✓ (1)	✓

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

2 List of Supported 3rd Party Flash Devices

Table 2: Ordering Information

Memory Size	Flash Device	Manufacturer	DA1453x	DA14585
512 kBit	MX25R512F	Macronix	✓	✓
1 Mbit	P25X10U	Puya	✓	✓
	P25Q10H	Puya	✓	✓
	GD25WD10CTIG	GigaDevice	✓	✓
	W25X10CL	Winbond	✓	✓
2 Mbit	MX25R2035F	Macronix	✓	✓
	GD25VQ20C	GigaDevice	✓	✓
	GD25WD20CTIG	GigaDevice	✓	✓
	W25X20CL	Winbond	✓	✓
4 Mbit	GD25WD40CTIG	GigaDevice	✓	✓

For additional information related to external memories, please refer to [AN-B-072](#) “DA14531 Booting from OTP and Serial Interfaces” and [AN-B-055](#) “DA14585 interfacing with external memory”.

Revision History

Revision	Date	Description
1.4	28-09-2021	Update Table 1 (Add AT25EU0021A)
1.3	30-06-2021	Update Hyperlinks in section 1
1.2	15-02-2021	Update Hyperlinks in section 2
1.1	12-11-2020	Update Table 1
1.0	22-10-2020	Initial Release

DA145xx Flash Selector Guide

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.

Disclaimer

Unless otherwise agreed in writing, the Dialog Semiconductor products (and any associated software) referred to in this document are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of a Dialog Semiconductor product (or associated software) can reasonably be expected to result in personal injury, death or severe property or environmental damage. Dialog Semiconductor and its suppliers accept no liability for inclusion and/or use of Dialog Semiconductor products (and any associated software) in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Information in this document is believed to be accurate and reliable. However, Dialog Semiconductor does not give any representations or warranties, express or implied, as to the accuracy or completeness of such information. Dialog Semiconductor furthermore takes no responsibility whatsoever for the content in this document if provided by any information source outside of Dialog Semiconductor.

Dialog Semiconductor reserves the right to change without notice the information published in this document, including, without limitation, the specification and the design of the related semiconductor products, software and applications. Notwithstanding the foregoing, for any automotive grade version of the device, Dialog Semiconductor reserves the right to change the information published in this document, including, without limitation, the specification and the design of the related semiconductor products, software and applications, in accordance with its standard automotive change notification process.

Applications, software, and semiconductor products described in this document are for illustrative purposes only. Dialog Semiconductor makes no representation or warranty that such applications, software and semiconductor products will be suitable for the specified use without further testing or modification. Unless otherwise agreed in writing, such testing or modification is the sole responsibility of the customer and Dialog Semiconductor excludes all liability in this respect.

Nothing in this document may be construed as a license for customer to use the Dialog Semiconductor products, software and applications referred to in this document. Such license must be separately sought by customer with Dialog Semiconductor.

All use of Dialog Semiconductor products, software and applications referred to in this document is subject to Dialog Semiconductor's [Standard Terms and Conditions of Sale](http://www.dialog-semiconductor.com), available on the company website (www.dialog-semiconductor.com) unless otherwise stated.

Dialog, Dialog Semiconductor and the Dialog logo are trademarks of Dialog Semiconductor Plc or its subsidiaries. All other product or service names and marks are the property of their respective owners.

© 2021 Dialog Semiconductor. All rights reserved.

RoHS Compliance

Dialog Semiconductor's suppliers certify that its products are in compliance with the requirements of Directive 2011/65/EU of the European Parliament on the restriction of the use of certain hazardous substances in electrical and electronic equipment. RoHS certificates from our suppliers are available on request.

Contacting Dialog Semiconductor

United Kingdom (Headquarters)

Dialog Semiconductor (UK) LTD
Phone: +44 1793 757700

Germany

Dialog Semiconductor GmbH
Phone: +49 7021 805-0

The Netherlands

Dialog Semiconductor B.V.
Phone: +31 73 640 8822

Email:

enquiry@diasemi.com

North America

Dialog Semiconductor Inc.
Phone: +1 408 845 8500

Japan

Dialog Semiconductor K. K.
Phone: +81 3 5769 5100

Taiwan

Dialog Semiconductor Taiwan
Phone: +886 281 786 222

Web site:

www.dialog-semiconductor.com

Hong Kong

Dialog Semiconductor Hong Kong
Phone: +852 2607 4271

Korea

Dialog Semiconductor Korea
Phone: +82 2 3469 8200

China (Shenzhen)

Dialog Semiconductor China
Phone: +86 755 2981 3669

China (Shanghai)

Dialog Semiconductor China
Phone: +86 21 5424 9058