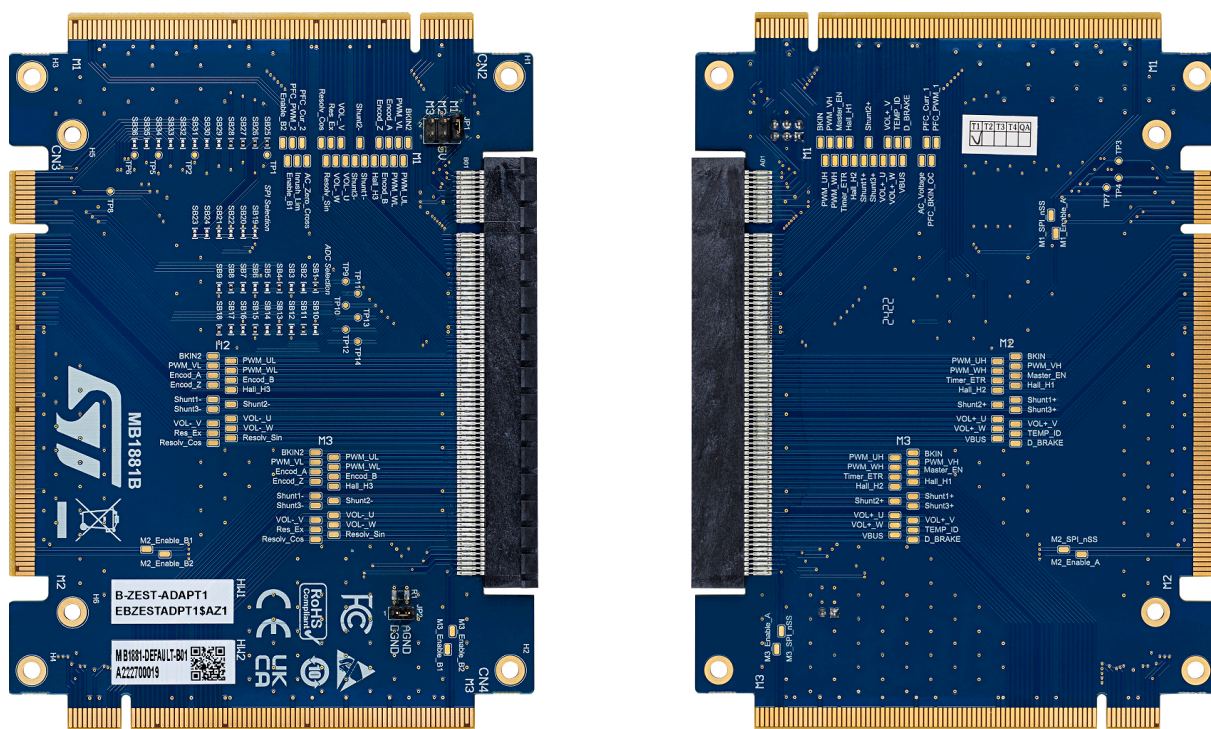


## Adapter board for STM32 ZeST motor-control boards



B-ZEST-ADAPT1 top and bottom views. Pictures are not contractual.

Product status link

[B-ZEST-ADAPT1](#)



## Features

- V2 motor-control connector splitter to three connectors allowing up to three motor board operation
- Signal configuration through solder bridges (SPI, ADC)
- Separate analog and digital ground planes for isolated operations with compatible boards

## Description

The B-ZEST-ADAPT1 adapter board expands the abilities of control cards using a V2 motor-control connector (PCIe x16) by splitting the command signals into three connectors, enabling up to three power board management.

## 1 General information

B-ZEST-ADAPT1 adapter board connects motor-control boards with embedded STM32 32-bit microcontrollers based on the Arm<sup>®</sup> Cortex<sup>®</sup>-M processor.

This board is compatible with the new generation of STM32 motor-control boards, to be used in association with B-G473E-ZEST1S and B-DRIVE-LVLP01. For further information, refer to the STM32 motor-control ecosystem webpage at [www.st.com](http://www.st.com).

*Note:* Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



## 2 Ordering information

To order the B-ZEST-ADAPT1 adapter board, refer to [Table 1](#). For a detailed description, refer to its user manual on the product web page. Additional information is available from the datasheet and reference manual of the target microcontroller.

**Table 1. Ordering information**

Order code	Board reference	User manual
B-ZEST-ADAPT1	MB1881	UM3075

### 2.1 Product marking

The stickers located on the top or bottom side of all PCBs provide product information:

- First sticker: product order code and product identification, generally placed on the main board featuring the target device.

Example:

Product order code Product identification
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- Second sticker: board reference with revision and serial number, available on each PCB.

Example:

MBxxxx-Variant-yyz syywwxxxxx	
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On the first sticker, the first line provides the product order code, and the second line the product identification.

On the second sticker, the first line has the following format: “MBxxxx-Variant-yyz”, where “MBxxxx” is the board reference, “Variant” (optional) identifies the mounting variant when several exist, “y” is the PCB revision, and “zz” is the assembly revision, for example B01. The second line shows the board serial number used for traceability.

Parts marked as “ES” or “E” are not yet qualified and therefore not approved for use in production. ST is not responsible for any consequences resulting from such use. In no event will ST be liable for the customer using any of these engineering samples in production. ST’s Quality department must be contacted prior to any decision to use these engineering samples to run a qualification activity.

“ES” or “E” marking examples of location:

- On the targeted STM32 that is soldered on the board (for an illustration of STM32 marking, refer to the STM32 datasheet *Package information* paragraph at the [www.st.com](http://www.st.com) website).
- Next to the evaluation tool ordering part number that is stuck, or silk-screen printed on the board.

Some boards feature a specific STM32 device version, which allows the operation of any bundled commercial stack/library available. This STM32 device shows a “U” marking option at the end of the standard part number and is not available for sales.

To use the same commercial stack in their applications, the developers might need to purchase a part number specific to this stack/library. The price of those part numbers includes the stack/library royalties.

## Revision history

**Table 2. Document revision history**

Date	Revision	Changes
20-Jan-2023	1	Initial release.

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