

## Camera module bundle for STM32 boards



*B-CAMS-OMV top view without FFC.  
Picture is not contractual.*

Product status link

[B-CAMS-OMV](#)

### Features

- Camera module adapter board (MB1683)
  - 1 × 30 pin ZIF connector and extended GPIO connector for easy connection to compatible STM32 boards
  - STMicroelectronics camera module (MB1379) connector
  - OpenMV camera module connector
  - Waveshare camera board connector
  - 3.3 V power
- STMicroelectronics camera module (MB1379)
  - Based on the OV5640 image sensor offering a 5-Mpixel resolution with 8-bit color
- Flexible flat cable (FFC)

### Description

The camera module bundle (**B-CAMS-OMV**) provides extension connectors for the MB1379 STMicroelectronics camera module daughterboard or third-party modules like OpenMV and Waveshare modules. It can be used with the STM32 boards featuring a 1 × 30 pin ZIF connector for the connection of multiple cameras to implement computer vision on STM32 microcontrollers easily.

The camera module bundle is compatible with all STM32 Discovery kits and Evaluation boards featuring a ZIF connector, such as the [STM32H7471-DISCO](#) and [32L4R9IDISCOVERY](#) Discovery kits.

# 1 Ordering information

To order the B-CAMS-OMV camera module bundle, refer to Table 1.

**Table 1. Ordering information**

Order code	Content and references	User manual	Target STM32 boards
B-CAMS-OMV	<ul style="list-style-type: none"> <li>MB1683<sup>(1)</sup></li> <li>MB1379<sup>(2)</sup></li> <li>FFC<sup>(3)</sup></li> </ul>	UM2779	<ul style="list-style-type: none"> <li>STM32H747I-DISCO</li> <li>32L4R9IDISCOVERY</li> <li>STM32 boards featuring a 1 × 30 pin ZIF connector</li> </ul>

1. Camera module adapter board.
2. STMicroelectronics camera module mounted on MB1683.
3. Flexible flat cable.

The STM32 Discovery kits and Evaluation boards feature STM32 32-bit microcontrollers based on the Arm® Cortex® processor.

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



## 1.1 Product marking

The sticker located on the top or bottom side of the PCB shows the information about product identification such as board reference, revision, and serial number.

The first identification 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 identification line is the board serial number used for traceability.

Evaluation tools marked as "ES" or "E" are not yet qualified and therefore not ready to be used as reference design or in production. Any consequences deriving from such usage will not be at ST charge. In no event, ST will be liable for any customer usage of these engineering sample tools as reference designs or in production.

"E" or "ES" 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.

## 2 Development environment

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### 2.1 Demonstration software

The demonstration software supporting the use of the **B-CAMS-OMV** camera module bundle is available from the **FP-AI-VISION1** STM32Cube function pack. The latest versions of the demonstration source code and associated documentation can be downloaded from [www.st.com](http://www.st.com).

## Revision history

**Table 2. Document revision history**

Date	Version	Changes
15-Dec-2020	1	Initial release.

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