

# **EVAL-VL6180X**

## VL6180X premium evaluation kit (EVK)

**Data brief** 



### **Features**

- VL6180X proximity sensor, gesture and ambient light sensor (ALS)
- Demo mode
  - Connected directly to PC via USB (cable provided)
  - STM32 provides USB to I2C bridge to all direct communication
  - All power is derived from USB
- Developer mode
  - Device fully controlled in developer mode via I<sup>2</sup>C bus and power and ground
  - The device GPIO signal can be used as interrupts
- 2 push buttons
  - Micro RST, returns STM32 to default state
  - Sensor RST, performs full power down reset of VL6180X
- Software graphical user interface (GUI), download from www.st.com
- Cover glass and full set of physical spacer material provided

For further information contact your local STMicroelectronics sales office.

## **Description**

The VL6180X premium evaluation kit demonstrates the basic proximity, ranging and light sensing capabilities of the VL6180X sensor.

The evaluation kit is supplied with a cover glass material and a set of physical spacers to allow the user to understand how the device will behave in different setups.

The evaluation kit can either be run in the standard demo mode or in the developer mode.

In demo mode, the customer can observe the basic ranging capabilities of the device, and also modify many internal register settings via the SW GUI. In addition there is also the option to data log the system state when a range or ambient light sensor measurement is performed.

In the developer mode it is possible to directly load a custom I<sup>2</sup>C setup via the customer interface port to configure the device as required.

**Table 1. Ordering information** 

Order code	Description
MOB-EK2-180-03	VL6180X premium evaluation kit

Downloaded from Arrow.com.

## **Revision history**

Table 2. Document revision history

Date	Revision	Changes
26-May-2014	1	Initial release.
10-Jun-2014	2	Change document properties
01-Oct-2014	3	Update disclaimer



#### **IMPORTANT NOTICE - PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2014 STMicroelectronics - All rights reserved



DocID026403 Rev 3

3/3