



# X4M03 Datasheet

---

## X4 Radar Development Kit

XeThru Datasheet **by Novelda AS**

C Preliminary - October 31, 2017

### **Summary**

X4M03 is a development kit for the XeThru X4 SoC. It is an assembly of the X4SIP02, X4A02 and XTMCU02 products.

---



# Table of Contents

List of Features	3
Order Information	4
Physical Dimensions	4
Connector Descriptions	4
Hardware Revisions	5
Identifying HW revision	5
X4M03 rev.3	5
X4M03 rev.4	5
X4M03 rev.5	5
Schematics, Bill of Material and PCB Layout	6
Support and Resources	6
Disclaimer	6

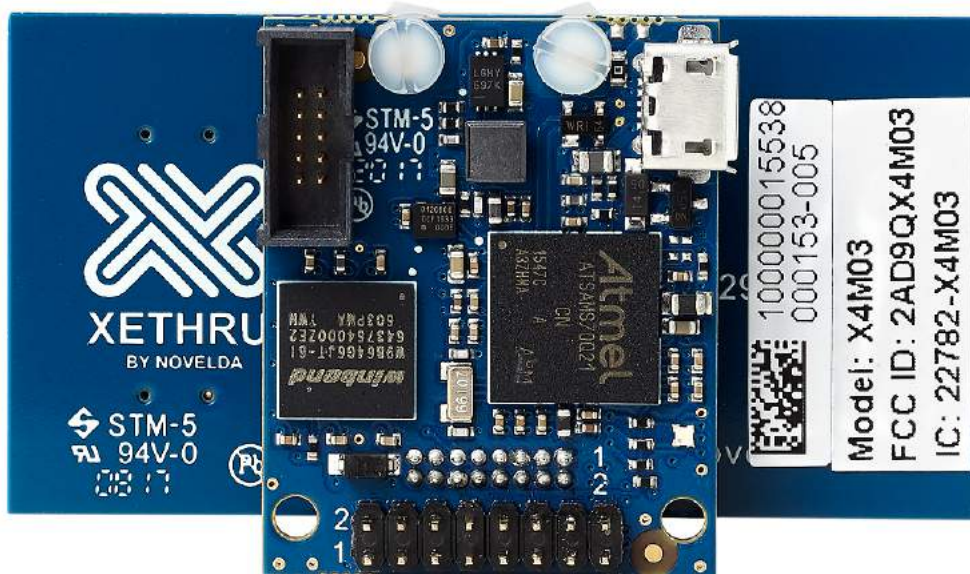


# 1 List of Features

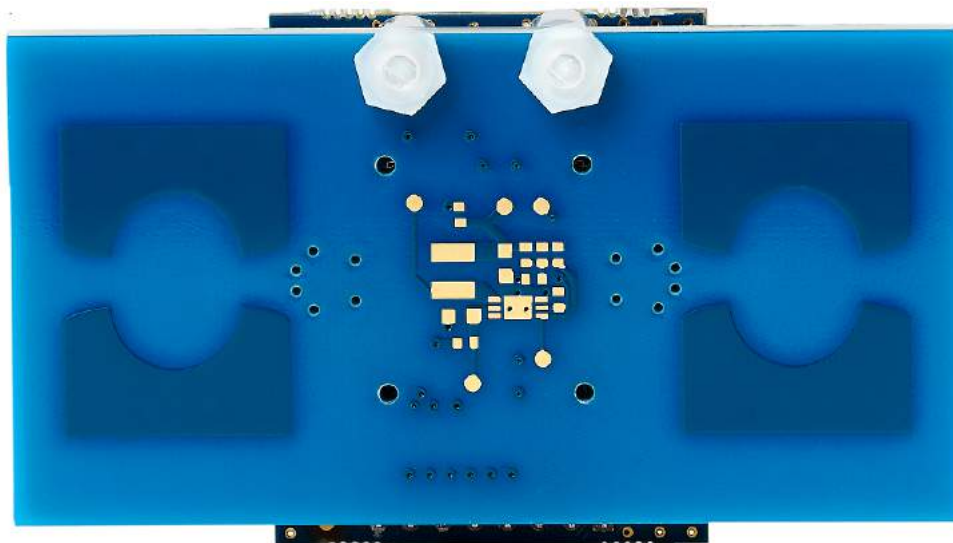
- Development kit for XeThru X4 UWB radar SoC
- Designed for ETSI/FCC/IC compliant TX center frequency
- Assembly of X4SIP02, X4A02 and XTMCU02



**X4M03 side view**



**X4M03 top view**



## X4M03 bottom view

### 1.1 Order Information

Order Code	Item Description	MOQ	MPQ
X4M03	X4M03 X4 Radar Development Kit	1	1

MOQ: Minimum Order Quantity

MPQ: Minimum Package Quantity

## 2 Physical Dimensions

Refer to datasheets of X4SIP02, X4A02 and XTMCU02 for a description of physical dimensions of X4M03.

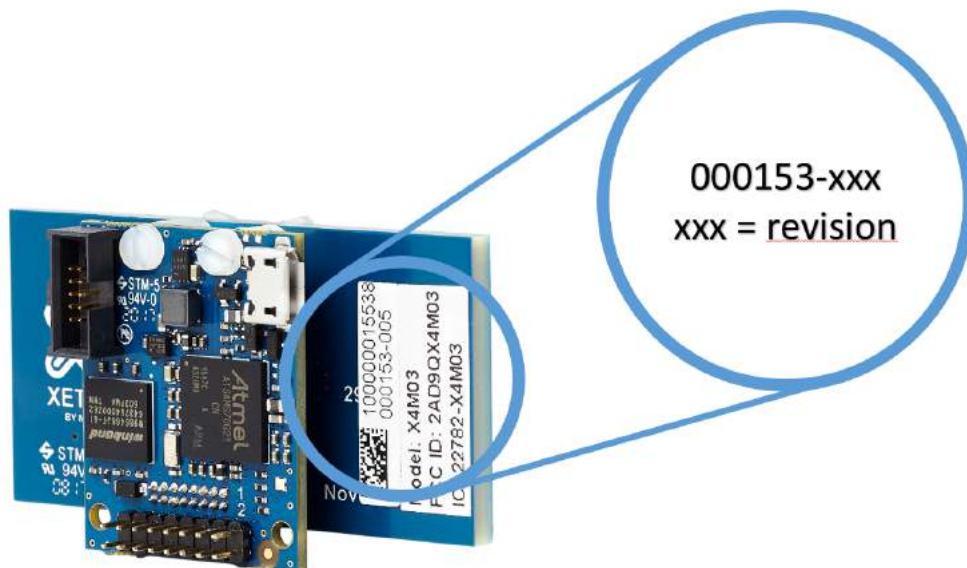
## 3 Connector Descriptions

The connectors on X4M03 are described in the X4A02 and XTMCU02 datasheets.



## 4 Hardware Revisions

### 4.1 Identifying HW revision



#### How to identify HW revision of X4M03

For detailed descriptions of X4SIP02, X4A02 and XTMCU02 hardware, see their respective datasheets.

### 4.2 X4M03 rev.3

Uses the following boards:

- X4SIP02 rev.3
- X4A02 rev.3
- XTMCU02 rev.2

### 4.3 X4M03 rev.4

Uses the following boards:

- X4SIP02 rev.3
- X4A02 rev.3
- XTMCU02 rev.3 - MCU changed from 1MB to 2MB version

### 4.4 X4M03 rev.5

Uses the following boards:

- X4SIP02 rev.4 - Added shield box
- X4A02 rev.3
- XTMCU02 rev.4 - MCU clock source changed from crystal to oscillator circuit



## 5 Schematics, Bill of Material and PCB Layout

Schematics, bill of material and PCB layout files for X4M03, X4SIP02, X4A02 and XTMCU02 can be downloaded from [www.xethru.com](http://www.xethru.com).

## 6 Support and Resources

Development support, resources, links to development partners and resellers can be found on Novelda's web site [www.xethru.com](http://www.xethru.com).

## 7 Disclaimer

Novelda™, XeThru™ and others are registered trademarks or trademarks of Novelda AS. Other terms and product names may be trademarks of others.

DISCLAIMER: The information in this document is provided in connection with Novelda products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of Novelda products. EXCEPT AS SET FORTH IN THE NOVELDA TERMS AND CONDITIONS OF SALES LOCATED ON THE NOVELDA WEBSITE, NOVELDA ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL NOVELDA BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS AND PROFITS, BUSINESS INTERRUPTION, OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF NOVELDA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Novelda makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and products descriptions at any time without notice. Novelda does not make any commitment to update the information contained herein. Unless specifically provided otherwise, Novelda products are not suitable for, and shall not be used in, automotive applications. Novelda products are not intended, authorized, or warranted for use as components in applications intended to support or sustain life.

SAFETY-CRITICAL, MILITARY, AND AUTOMOTIVE APPLICATIONS DISCLAIMER: Novelda products are not designed for and will not be used in connection with any applications where the failure of such products would reasonably be expected to result in significant personal injury or death ("Safety-Critical Applications") without an Novelda officer's specific written consent. Safety-Critical Applications include, without limitation, life support devices and systems, equipment or systems for the operation of nuclear facilities and weapons systems. Novelda products are not designed nor intended for use in military or aerospace applications or environments unless specifically designated by Novelda as military-grade. Novelda products are not designed nor intended for use in automotive applications unless specifically designated by Novelda as automotive-grade.