

280031-010 X4M02 PCBA Manufacturing Documentation

X4 Radar Module

By Novelda AS 2017-12-15



Document description

This document decribes the assembly specifications for the current PCBA.

Contents of this document

- Notes to manufacturer
- BOM-changes
- Schematic printsAssembly Drawings
- PCB Dimensions
- Testpoints placement



Notes to manufacturer

No notes.



BOM-changes

Revision 10

- · Based on BOM from revision 8
- A1 changed to X4M02 PCB Rev 10
- Removed Y301
- Removed C327
- Changed C326 to 100n, 0402, 10%, 10V, X5R
- Added oscillator U303 12MHz CMOS MEMS, Manufacturer: Microchip Technology, MPN: DSC6003JI2A-012.0000
- · Added shield box S1
- Change U200 to X4 Radar IC rev.2, Manufacturer: Novelda, MPN: 200260-002

Revision 9

- · Based on BOM from revision 6.
- · Added shield box S1

Revision 8

- A1 changed to X4M02 PCB Rev8.
- Added resistor R6 0R, 0603, 1%, 100mW
- Added resistor R305 2R2, 0402, 1%, 63mW
- · Added inductor L300 10u, 0805, 20%, 60mA, 650mOhm, MPN: CK2125100M-T, Manufacturer: Taiyo Yuden
- Added capacitor C331 4u7, 0603, 10%, 10V, X5R
- Added capacitors C332 and C333 1u, 0402, 10%, 10V, X5R
- Added capacitors C334, C336, C338, C339 and C340 100n, 0402, 10%, 10V, X5R
- Added capacitor C335 100n, 0603, 10%, 16V, X7R
- Added capacitor C337 2u2, 0402, 20%, 6V3, X5R

Revision 7

• Will not be manufactured.

Revision 6

- A1 changed to X4M02 PCB Rev6.
- Changed U301 to MCU with 2MB flash. MPN: ATSAMS70Q21A-CN.

Revision 5

• A1 changed to X4M02 PCB Rev5.

Revision 4

• A1 changed to X4M02 PCB Rev4.

Revision 3

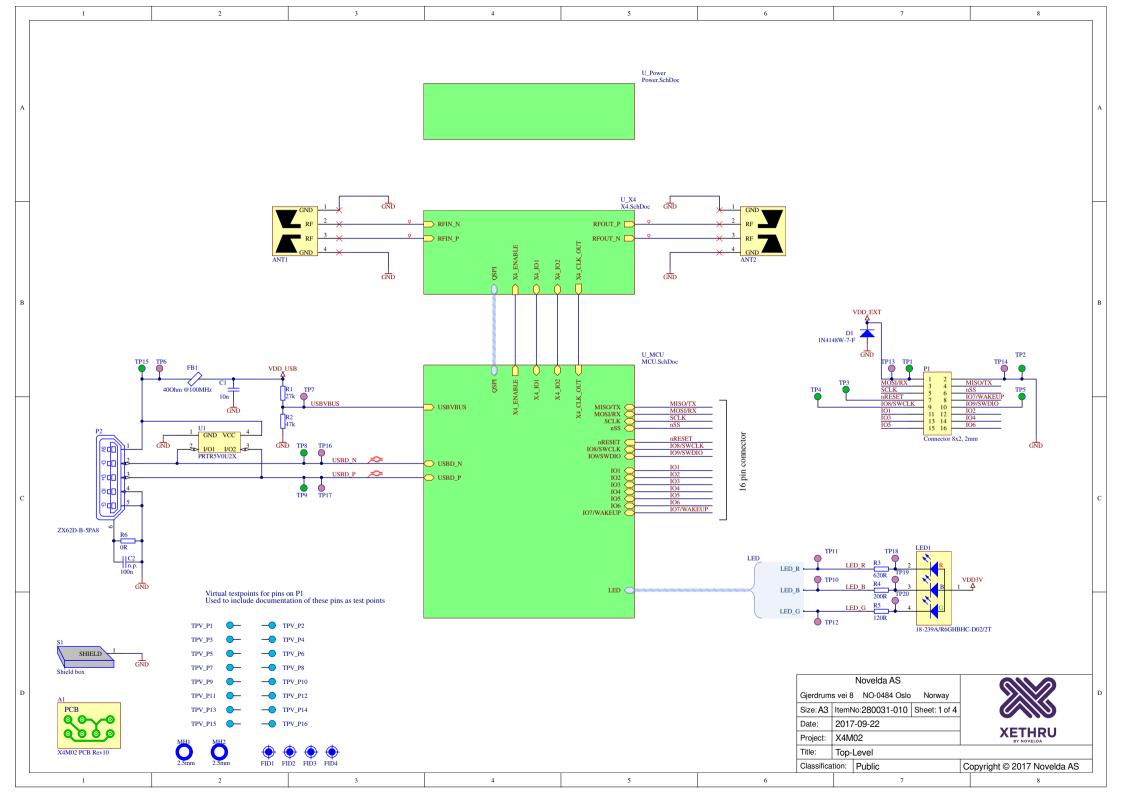
• A1 changed to X4M02 PCB Rev3.

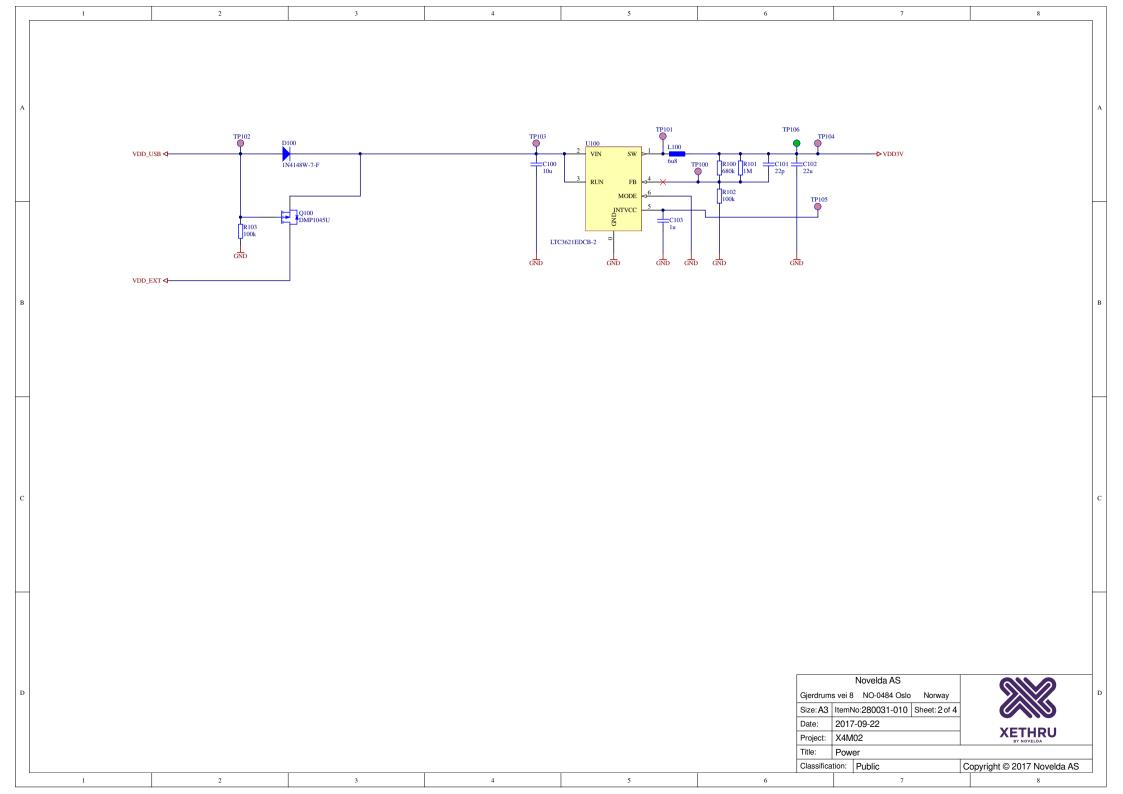
Revision 2

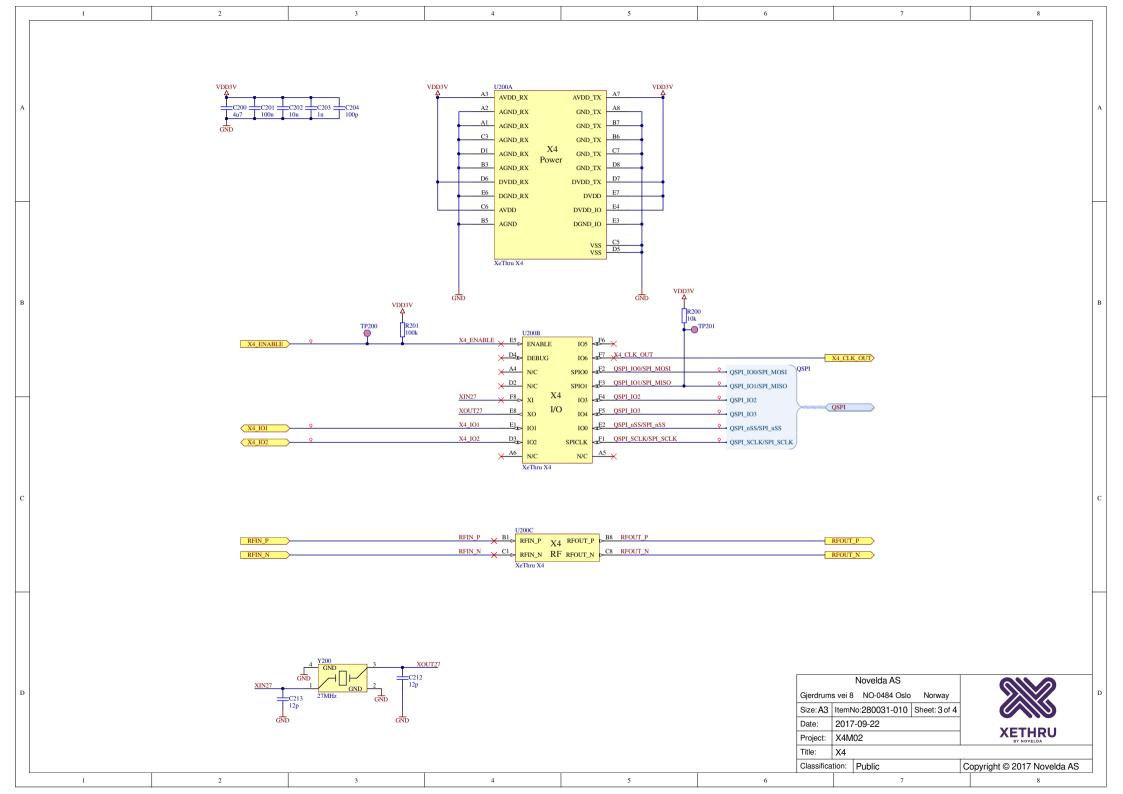
- A1 changed to X4M02 PCB Rev2.
- Add R304. 100k, 0402, 1%

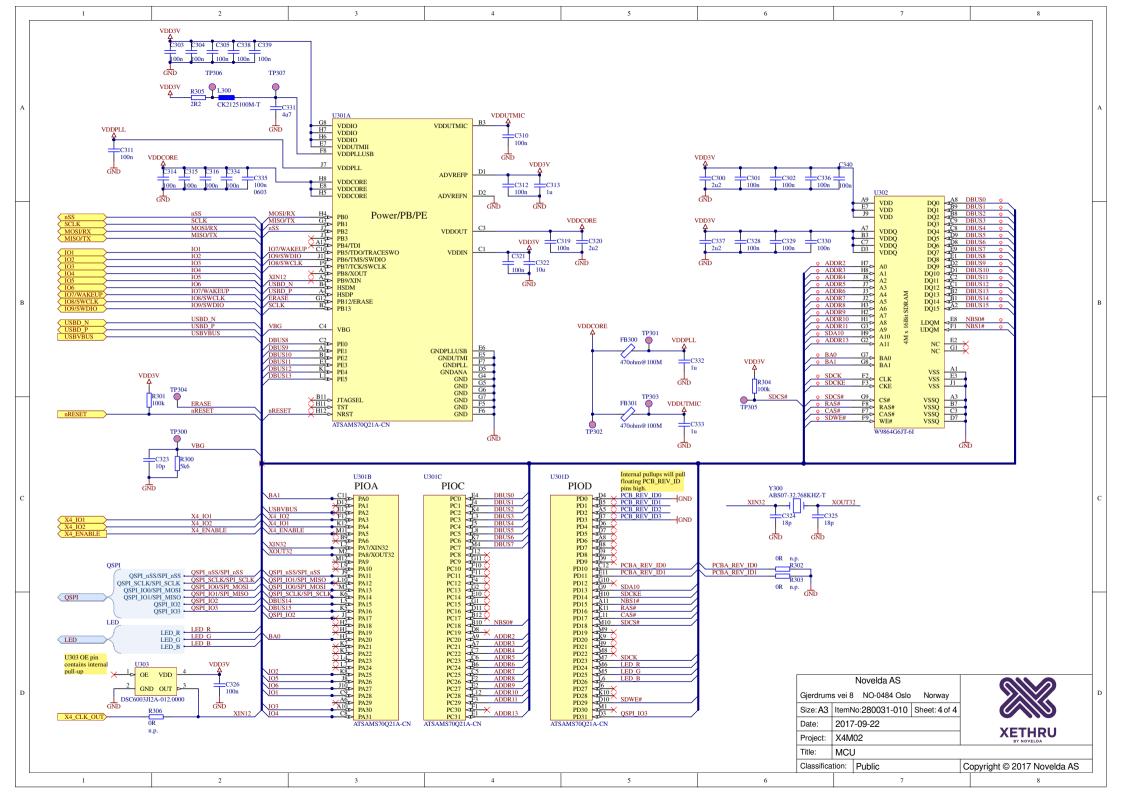
Revision 1

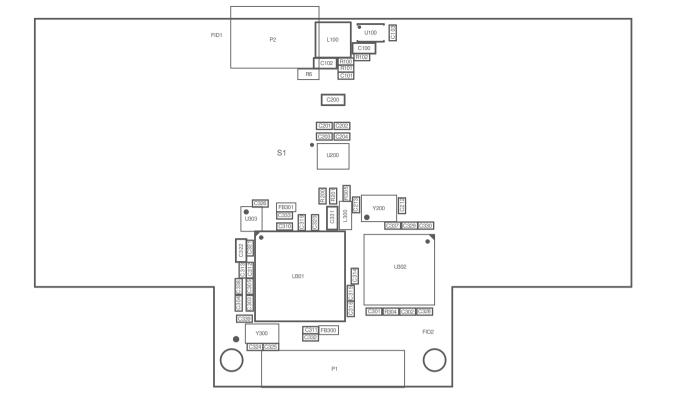
Initial prototype.



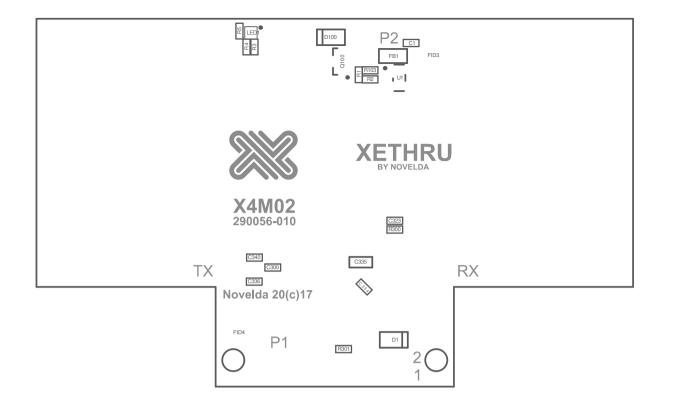




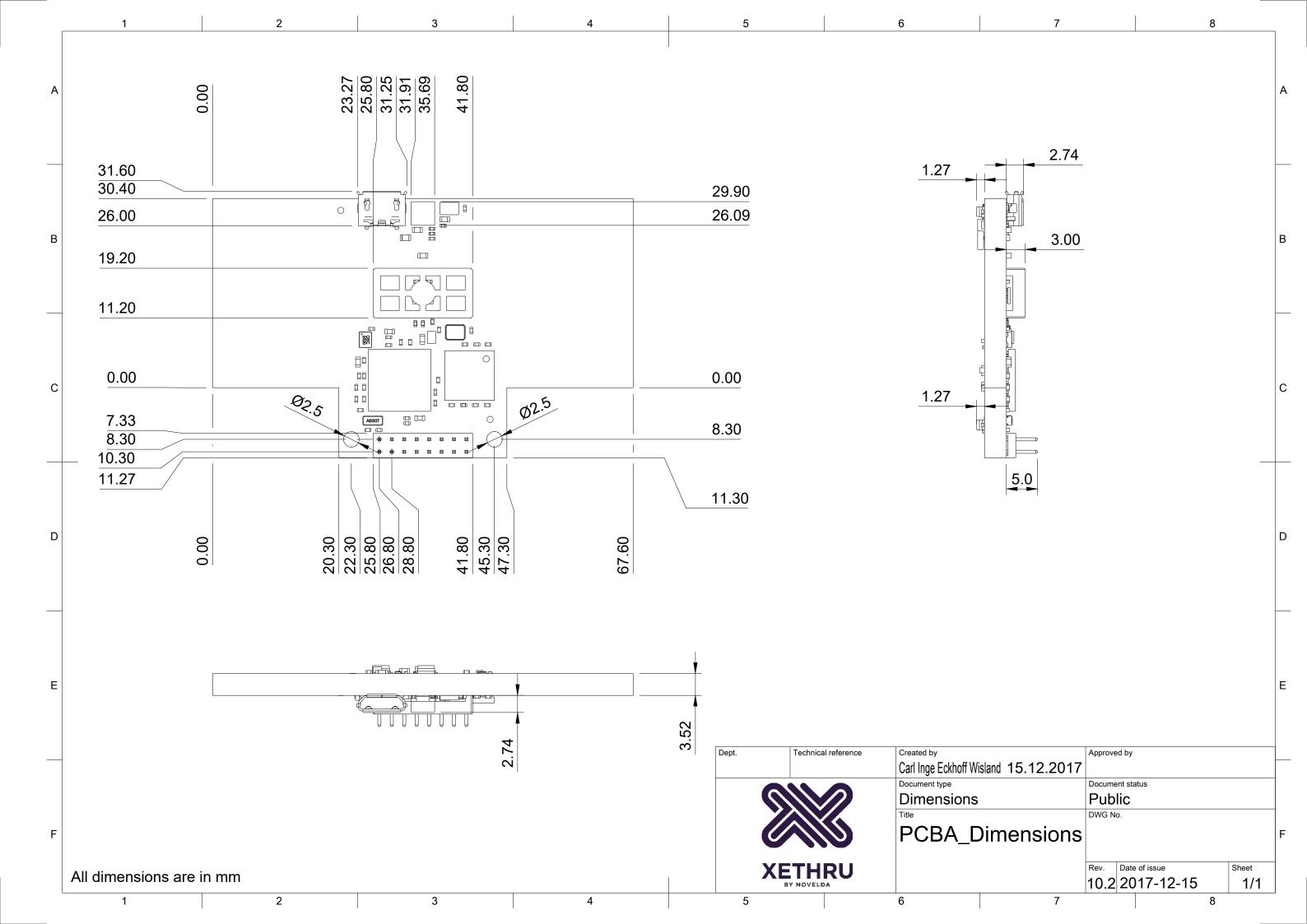


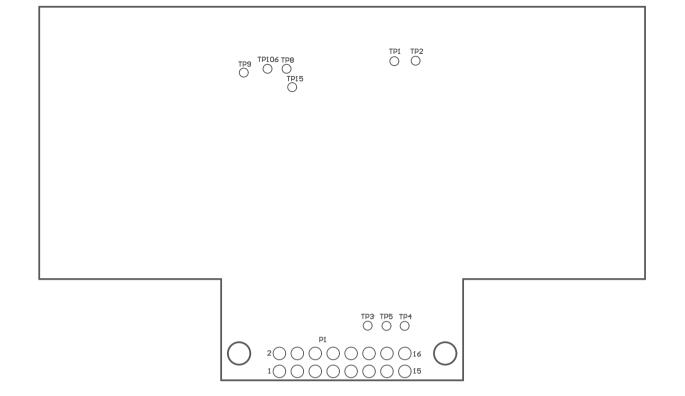


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Date	2017-06-13
Project	X4M02
Layer	Top Designator and Assembly
Classif	ication Public
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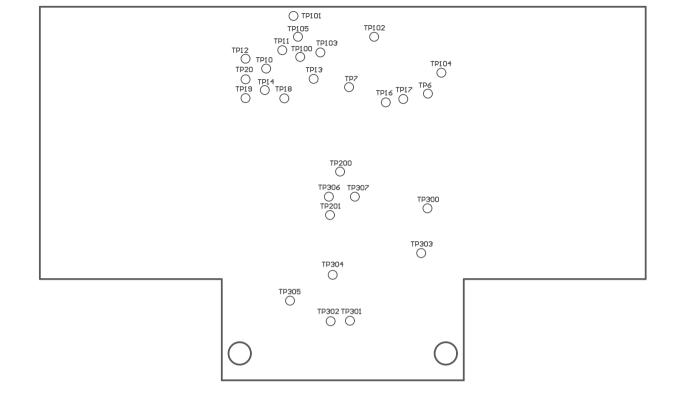


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Project	X4M02					
Layer	Testpoints Top					
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