

infineon XENSIV Sensor Shield Kit User Guide

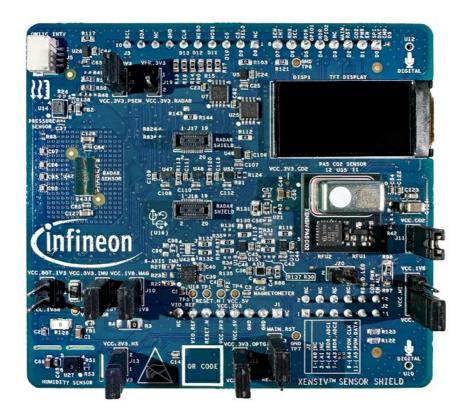
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infineon XENSIV Sensor Shield Kit



Product Usage Instructions

1. Connecting the Sensor Shield:

Insert the XENSIV sensor shield onto the supported baseboard of your choice following the pinout details
provided in the manual.

2. Powering Up:

• Ensure the baseboard is powered on and providing the necessary power supply to the sensor shield.

3. Interfacing with Sensors:

• Utilize the respective pins and interfaces on the sensor shield to interact with the different sensors included in the kit.

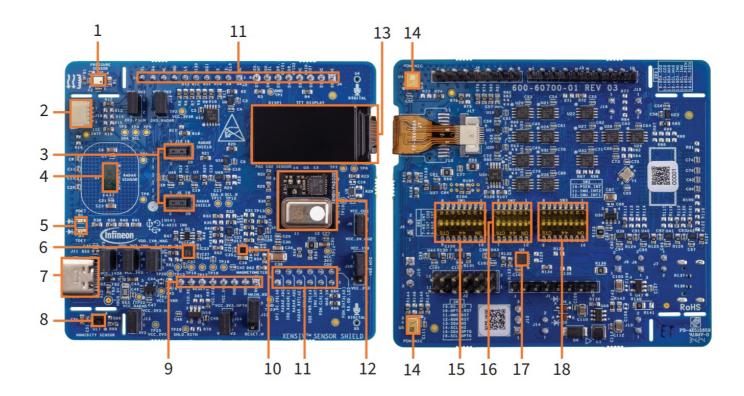
4. Data Processing:

• Implement appropriate data processing algorithms to interpret the sensor readings obtained from the various sensors on the shield.

Kit Features

- 1. XENSIV TM 60GHz Radar sensor (BGT60LTR11AIP)
- 2. XENSIV TM digital barometric pressure sensor with built-in temperature sensor (DPS368)
- 3. Two high-performance XENSIV TM MEMS digital microphones (IM72D128)
- 4. XENSIV TM PAS CO2 sensor based on photo acoustic spectroscopy principle(PAS CO2)
- 5. OPTIGATM Trust M security controller (SLS32AIA010MK)
- 6. Digital humidity and temperature sensor
- 7. Six-axis inertial measurement unit
- 8. Three-axis magnetometer sensor
- 9. SPI-based TFT display
- 10. Headers compatible with Arduino UNO R3

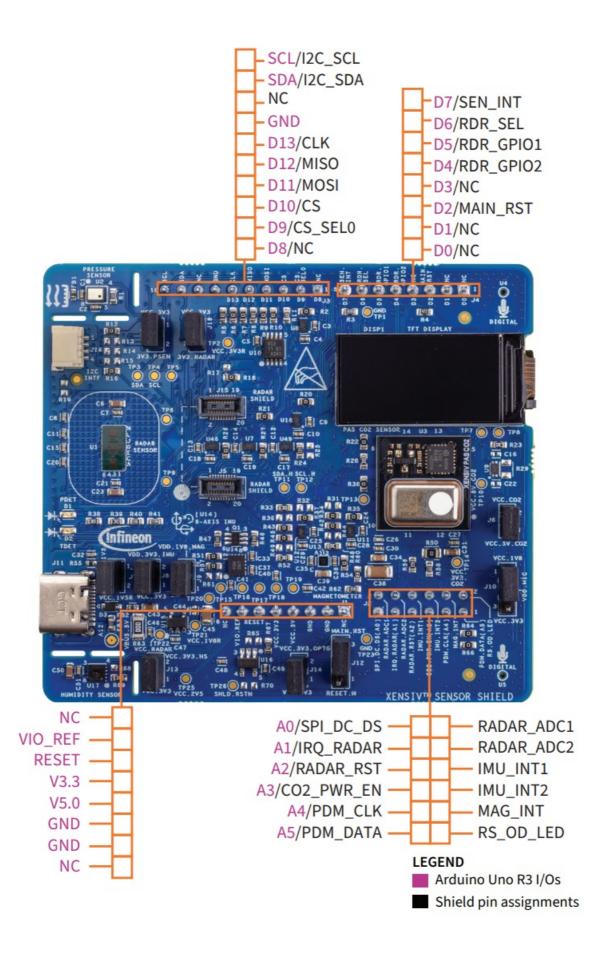
SHIELD_XENSIV_A XENSIV TM sensor shield details



- 1. XENSIVTM digital barometric air pressure sensor with built-in temperature sensor (U2)
- 2. I2C interface connector (J16)
- 3. External Radar shield interface connectors (J5, J15)
- 4. XENSIVTM 60 GHz Radar sensor (U1)
- 5. Radar sensor status LEDs (D1, D2)
- 6. Six-axis inertial measurement unit (U14)
- 7. USB connector-based auxiliary power supply for Radar subsystem (J11)
- 8. Digital humidity and temperature sensor (U17)
- 9. Power header compatible with Arduino UNO R3 (J1)
- 10. Three-axis magnetometer sensor (U13)
- 11. I/O headers compatible with Arduino UNO R3 (J2, J3, J4)
- 12. XENSIV™ PAS CO2 sensor (U3)
- 13. SPI-based TFT display (DISP1)
- 14. Two high-performance XENSIVTM MEMS digital microphones (U4, U5)
- 15. I2C and RESET selection switch (SW1)
- 16. Interrupt selection switch (SW2)
- 17. OPTIGATM Trust M security controller (U6)
- 18. I2C selection switch (SW3)

Sensor shield pinout details

SHIELD_XENSIV_A XENSIV TM sensor shield pinout details



Get started with the XENSIV sensor shield and supported baseboard of your choice. Refer to Kit guide at www.infineon.com/XSS-UG.

MORE INFORMATION

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- www.infineon.com/SHIELD_XENSIV_A



FAQs

- Q: Where can I find more detailed information on using the XENSIV sensor shield?
 - A: Refer to the Kit guide at <u>www.infineon.com/XSS-UG</u> for comprehensive instructions on utilizing the sensor shield with different baseboards.

Documents / Resources



infineon XENSIV Sensor Shield Kit [pdf] User Guide XENSIV Sensor Shield Kit, Sensor Shield Kit, Shield Kit

References

• User Manual

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