

BGT60LTR11AIP-based Dynamic Sensitivity Demo

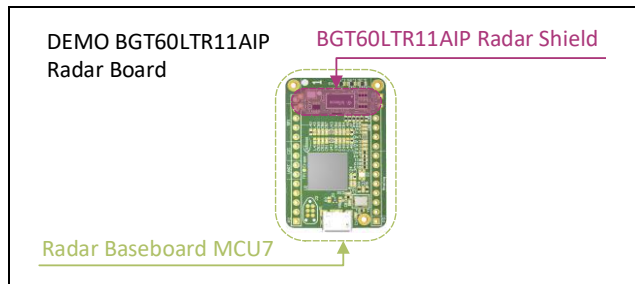


Introduction

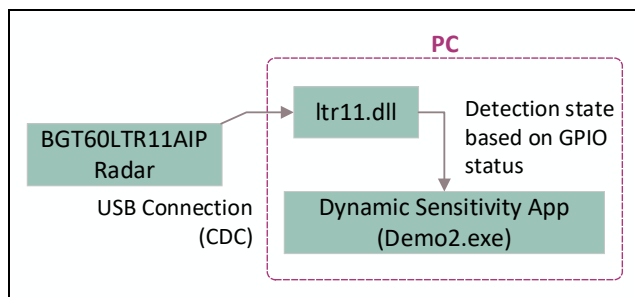
This demo showcases the dynamic sensitivity change of Infineon's XENSIV™ BGT60LTR11AIP radar sensor. It demonstrates the detection of a user in different ranges, and shows if a target is close or far away from the radar sensor.

Hardware and Software environment

- › This demo runs on DEMO BGT60LTR11AIP board.
- › Tested with the BGT60LTR11AIP Shield V3.0 and the RadarBaseboardMCU7_v117.bin Firmware.
- › The target platform is a Windows 64-Bit PC.

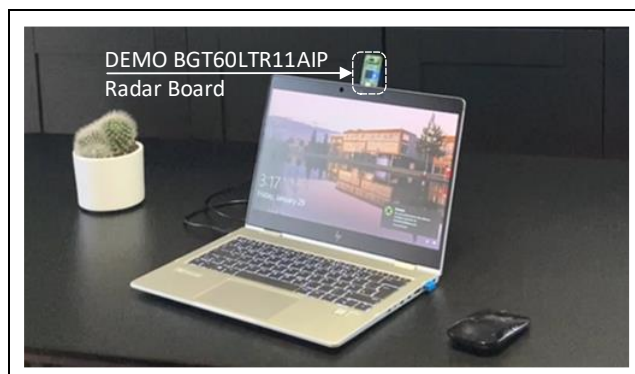


System Architecture



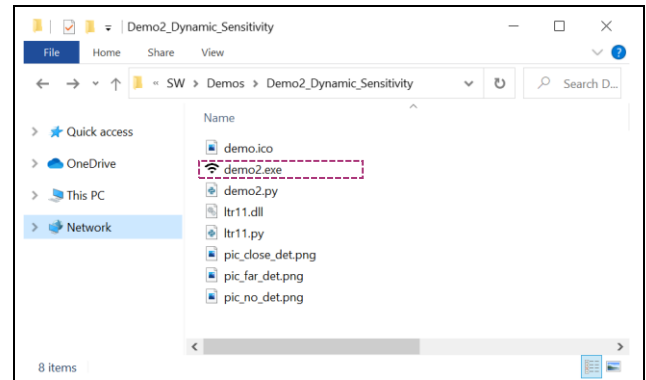
How to run the demo ?

- › Insert a micro USB cable into the Radar DEMO BGT60LTR11AIP board.
- › Insert the USB connector into the PC USB port.
- › Place the Radar board as shown in the figure below:

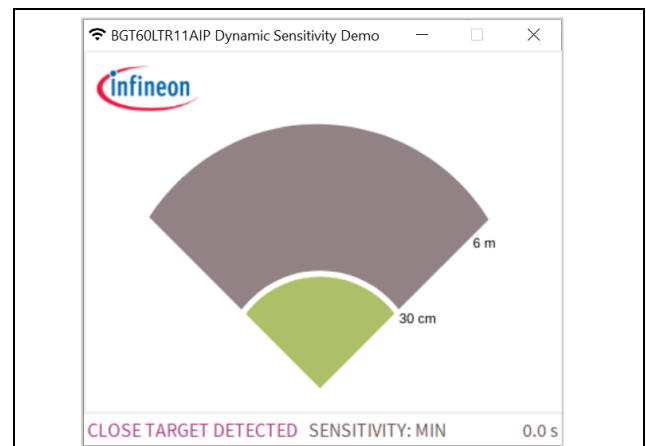


The demo package contains all required files, and an executable file to run the provided application easily.

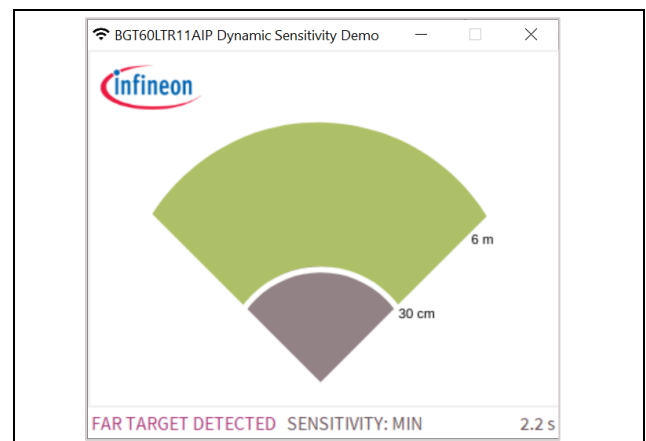
- › Go to SW → Demos → Demo2_Dynamic_Sensitivity
- › Double click on demo2.exe to run the demo application.



Lower sensitivity allows radar sensor to detect target in shorter distances.



Higher sensitivity allows radar sensor to detect target in longer distances.



Note: The Demo source code is already provided (demo2.py) and is based on the BGT60LTR11AIP Python wrapper.