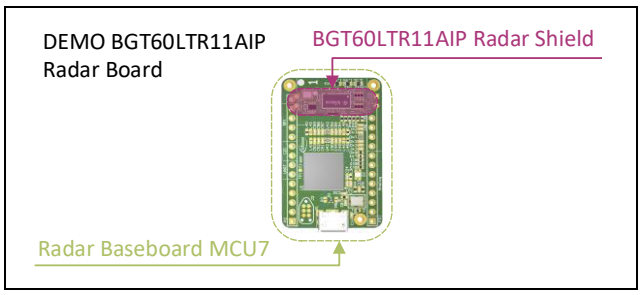
BGT60LTR11AIP-based PC Sleep Wakeup Demo

Introduction

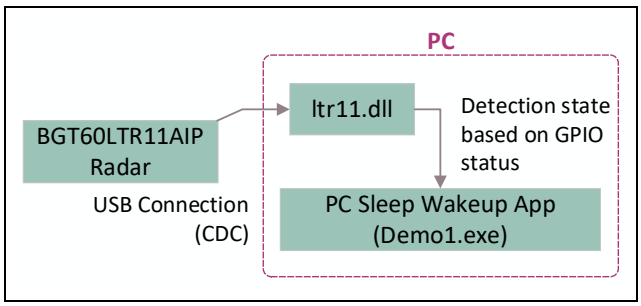
This demo showcases the presence and motion detection capabilities of Infineon's XENSIV™ BGT60LTR11AIP radar sensor. It demonstrates the detection of a user presence in front of the PC, and turns OFF/ON the screen of the PC as a response.

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.

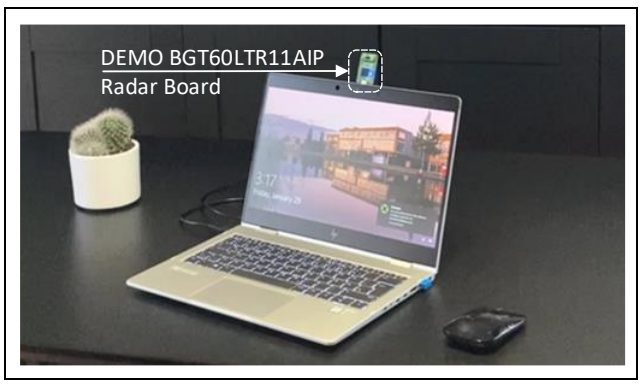


System Architecture



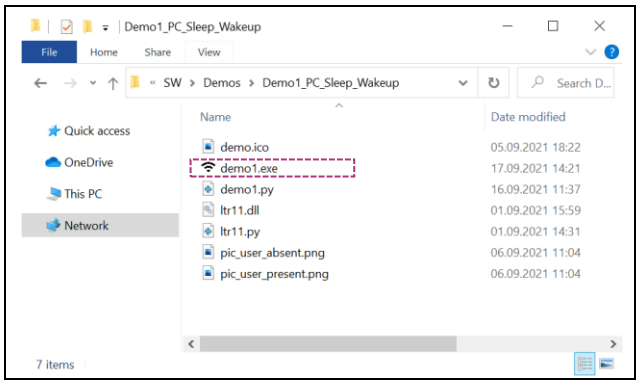
How to run the demo ?

- 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:

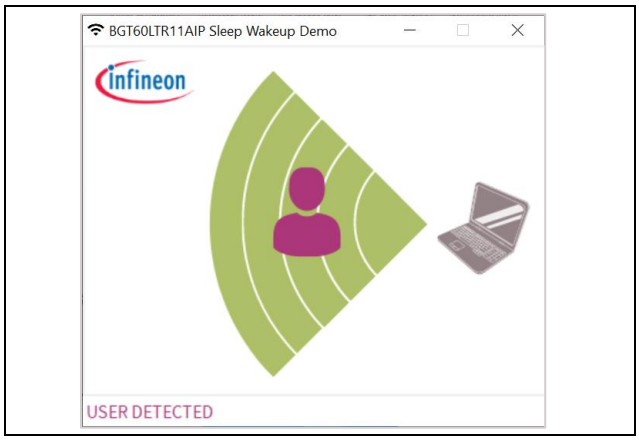


The demo package contains all required files, and an executable file to run the provided application easily.

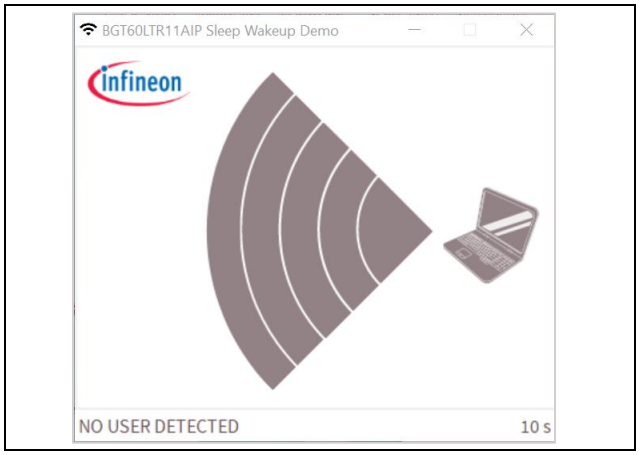
- Go to *SW → Demos → Demo1_PC_Sleep_Wakeup*
- Double click on *demo1.exe* to run the demo application.



When a motion is detected in front of the PC, user presence is identified, then the PC screen remains always ON.



Step away from your PC, so that you are out radar sensor range. Once no more motion is detected in front of the PC it will automatically turn OFF the screen and lock after the defined 10 s timeout is reached.



When you approach, a motion is detected and your PC will automatically wake-up and turn ON the screen.

Note: The Demo source code is already provided (demo1.py) and is based on the BGT60LTR11AIP Python wrapper.