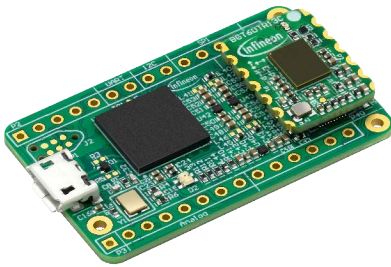


XENSIV™ BGT60TR13C

60 GHz radar board offerings

DEMO BGT60TR13C (BGT60TR13C and Cortex® M7)



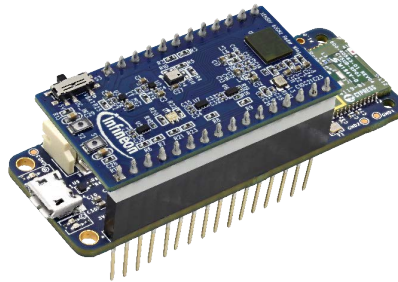
Highlights

- Demo platform for Infineon's XENSIV™ 60 GHz radar solutions
- 32-bit Arm® Cortex®-M7 Microcontroller unit (MCU)
- 300 MHz clock frequency, 2 MB Flash & 384 KB SRAM
- Perform radar data processing or forward data to a USB or Arduino MKR interface
- Arduino MKR interface & USB 2.0 interface
- Enables flexible configurations

Use cases

- Presence sensing
- Segmentation & tracking
- Gesture sensing
- Onlooker detection
- Object speed detection

KIT_CSK_BGT60TR13C (BGT60TR13C and PSOC™ 6)



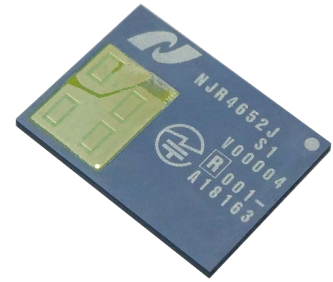
Highlights

- IoT sensor platform for IoT device development
- PSOC™ 62, Arm® Cortex®-M4/M0+ low power dual core microcontroller unit (MCU)
- 150 MHz clock, 2 MB Flash & 1 MB SRAM
- On-board Kitprog3, SWD programmer/debugger, USB-UART, & USB-I²C bridge functionality
- Wi-Fi (2.4 & 5 GHz) & Bluetooth® 5.0 Combo
- Secured communication with OPTIGA™ Trust M
- Supports USB, SPI, I²C & UART interfaces
- On-board LiPo battery connector

Use cases

- Segmentation & tracking
- Gesture sensing
- Entrance counter

BGT60TR13C SoM (BGT60TR13C and PSOC™ 6)



Highlights

- Reference design SoM (System on Module) board offered via [Associated Partner NSID](#)
- Size, cost, & performance optimized
- PSOC™ 6, 32-bit Arm® Cortex®-M4F microcontroller unit (MCU)
- 150 MHz clock frequency, 1 MB Flash & 288 KB SRAM
- USB 2.0 & SWD interface for firmware upgradation & interfacing
- SPI, I²C, UART interface & GPIOs
- FCC certifiable reference design

Use cases

- Presence detection (FCC certified)
- Distance & angle detection
- Gesture sensing
- Segmentation & tracking
- Entrance counter

DEMO BGT60TR13C (BGT60TR13C and Cortex® M7)

Specifications

- Frequency from 58 GHz to 63.5 GHz (FMCW)
- Rx antennas- 3, Tx antennas- 1
- Bandwidth of 5.5 GHz
- SPI (Serial Peripheral Interface)
- $\pm 45^\circ$ Azimuth & $\pm 45^\circ$ Elevation FoV
- Range up to 15 m (application specific)
- Temperature ranges from -20 to +70°C

Kit components

- Radar Baseboard MCU7 as the microcontroller board
- BGT60TR13C shield housing the MMIC

Tools & Software

- Radar Fusion GUI
- Radar Development Kit

Board dimensions

- 64 x 25.4 mm

KIT_CSK_BGT60TR13C (BGT60TR13C and PSOC™ 6)

Specifications

- Frequency from 58 GHz to 63.5 GHz (FMCW)
- Rx antennas- 3, Tx antennas- 1
- Bandwidth of 5.5 GHz
- SPI (Serial Peripheral Interface)
- $\pm 45^\circ$ Azimuth & $\pm 45^\circ$ Elevation FoV
- Range up to 15 m (application specific)
- Temperature ranges from -20 to +70°C

Kit components

- Rapid IoT Connect Developer Kit
- BGT60TR13C Wing board

Tools & Software

- ModusToolbox™
- Rapid IoT Connect Platform

Board dimensions

- 22.5 x 63 x 30 mm

BGT60TR13C SoM (BGT60TR13C and PSOC™ 6)

Specifications

- Frequency from 58 GHz to 63.5 GHz (FMCW)
- Rx antennas- 3, Tx antennas- 1
- Bandwidth of 5.5 GHz
- SPI (Serial Peripheral Interface)
- $\pm 45^\circ$ Azimuth & $\pm 40^\circ$ Elevation FoV
- Range up to 15 m (application specific)
- Temperature ranges from -20 to +70°C

Kit components

- Radar SoM board
- Radar I/O board (for configuration & testing)

Tools & Software

- ModusToolbox™
- Configuration GUI

Board dimensions

- 20 x 15 mm

References and further information

- [BGT60TR13C MMIC datasheet](#)
- [BGT60TR13C Shield user guide](#)
- [Radar Baseboard MCU7 user guide](#)
- [BGT60TR13C product page](#)
- [DEMO BGT60TR13C product page](#)
- [KIT CSK BGT60TR13C user guide](#)

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