

SHIELD_AUTONOM_BGT60

Complete autonomous shield with XENSIV™ BGT60LTR11AIP radar sensor MMIC

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Support

This board features Infineon's 60GHz XENSIV™ radar sensor **BGT60LTR11AIP** (configured in Autonomous mode). The BGT60LTR11AIP MMIC is a fully integrated microwave motion sensor including Antennas in Package (AIP), built-in motion and direction of motion detector and a state machine allowing fully autonomous operation of the MMIC without any external microcontroller. An integrated frequency divider with a Phase-Locked Loop (PLL) provides VCO frequency stabilization. These features make the small-sized radar

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- Autonomous mode
- Form factor compatibility with Arduino MKR board

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Parameters

Parameters	SHIELD_AUTONOM_BGT60
Antenna	Antennas in package
Family	Radar 60GHz
Frequency min max	61 GHz 61.5 GHz
Input Type	DC
Max Detection Range	7 m (Autonomous mode)
Motion	yes
Number of Rx Antennas max	1
Number of Tx Antennas max	1
Product Description	XENSIV™ 60GHz BGT60LTR11AIP radar sensor complete autonomous shield for motion sensing
Product Name	BGT60LTR11AIP
Qualification	Industrial
Target Application	Automated door openers ; Contactless switches ; Displays such as TVs ; monitors ; laptops or tablets ; Lighting systems and lighting control (mainly indoor lighting) ; Multicopter and drones ; Smart Building ; Smart appliances ; Smart home security and alarm systems including IP cameras ; Smart Home devices ; Air conditioners

Documents

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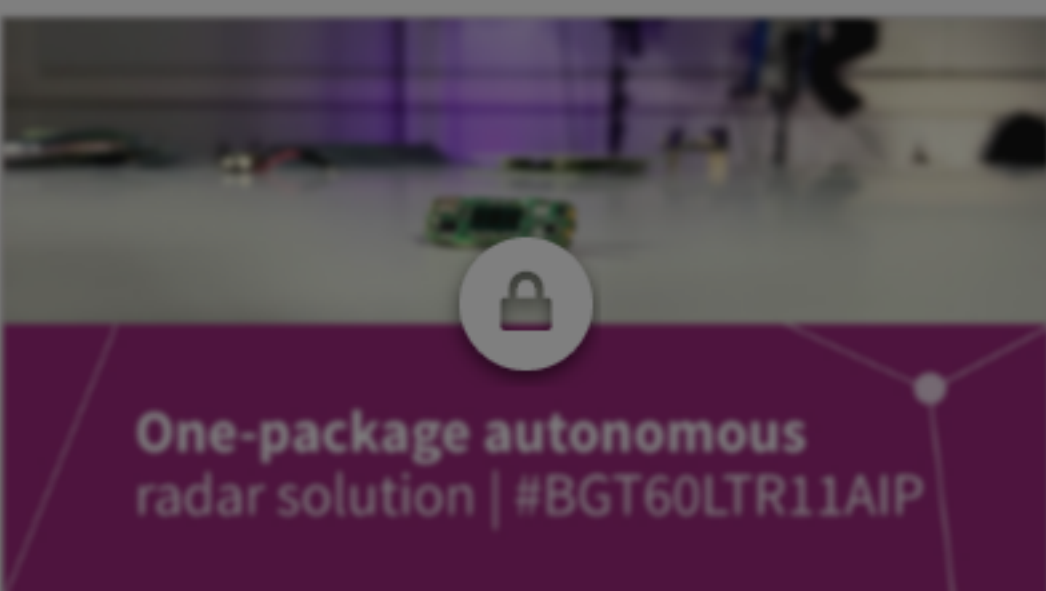
+ Product Brief

+ Application Notes

Order

Sales Product Name	SHIELD_AUTONOM_BGT60
OPN Info	SHIELDAUTONOMBGT60TOBO1
Product Status	active
Infineon Package name	--
Standard Package name	
Order online	Buy online
Completely lead free	
Halogen free	
RoHS compliant	yes
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

Videos



Getting started with BGT60LTR11AIP Autonomous Shield [Share](#)

The BGT60LTR11AIP one-package radar solution enables radar technology for everyone. Its high level of integration overcomes the complexity of antenna design, RF knowledge and radar signal processing at the user-end. This video illustrates how fast and easy the sensor is to use.

Applications

- Smart Building and Smart Home** devices such as thermostats, smoke detectors, smart speakers and other entertainment systems
- Smart appliances** (Small home appliances and major home appliances) such as service robots, vacuum cleaners, lawnmower, washing machine and kitchen appliances
- Smart home security** and alarm systems including IP cameras
- Screen based systems such as TVs, laptops or tablets
- Lighting systems and lighting control** (mainly indoor lighting)
- Room air conditioners**
- Automated door openers**
- Smart entrance counter solution**
- Contactless switches
- Multicopters and drones**

Support

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