Infineon XENSIV™ Radar Entrance counter

June 20

Entrance counter – Introduction

Infineon Entrance Counter with 60GHz XENSIV™ Radar inside provides visibility of the number of people entering, leaving, and inside a facility

The ability to measure and analyse the human traffic in your location is part of understanding and managing your business further, such as understanding peak times, heavy traffic routes, and customer shopping habits.

+ COVID-19

"Where people come together in crowds, you are more likely to come into close contact with someone that has COVID-19"

World Health organisation May 2020

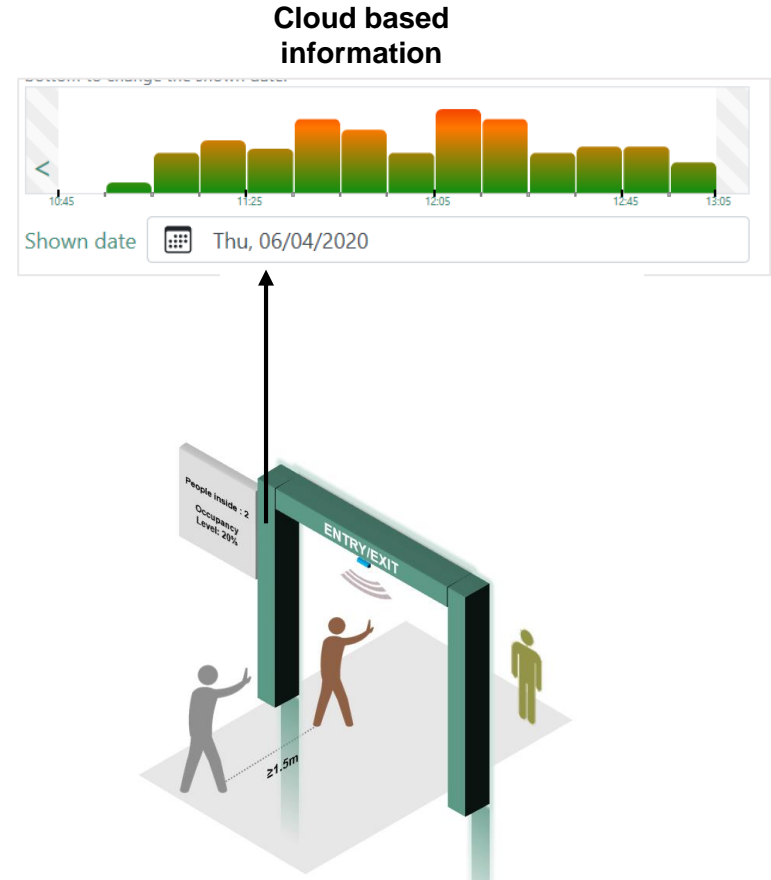# Entrance counter solution based on Infineon 60 GHz radar

Solution High-level introduction:

› Solution **accurately counts people** moving in and out of entrance with **one single sensor**
› Provide information **how many people are inside a facility** any time
› **Prevents overcrowding** and therefore supports **social distancing**

Already operational:

Solution already successfully installed at Infineon Headquaters Restaurant (seat capacity 1000 people)

- Counts people moving in and out of canteen
- Provides Green „Go-Ahead" if entering is allowed
- Cloud based information how crowded the canteen currently is

Cloud based information

Shown date   Thu, 06/04/2020

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Target use cases:

› Retail & restaurants (to ensure max number of people inside)
› Smart buildings (building mgmt/ control)
› Meeting room occupancy
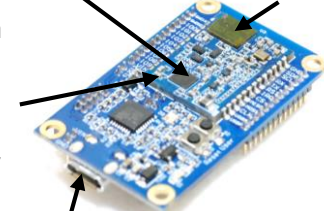› Office space occupancy (free seat availability)

Evaluation Board
KIT BGT60TR13C EMBEDD
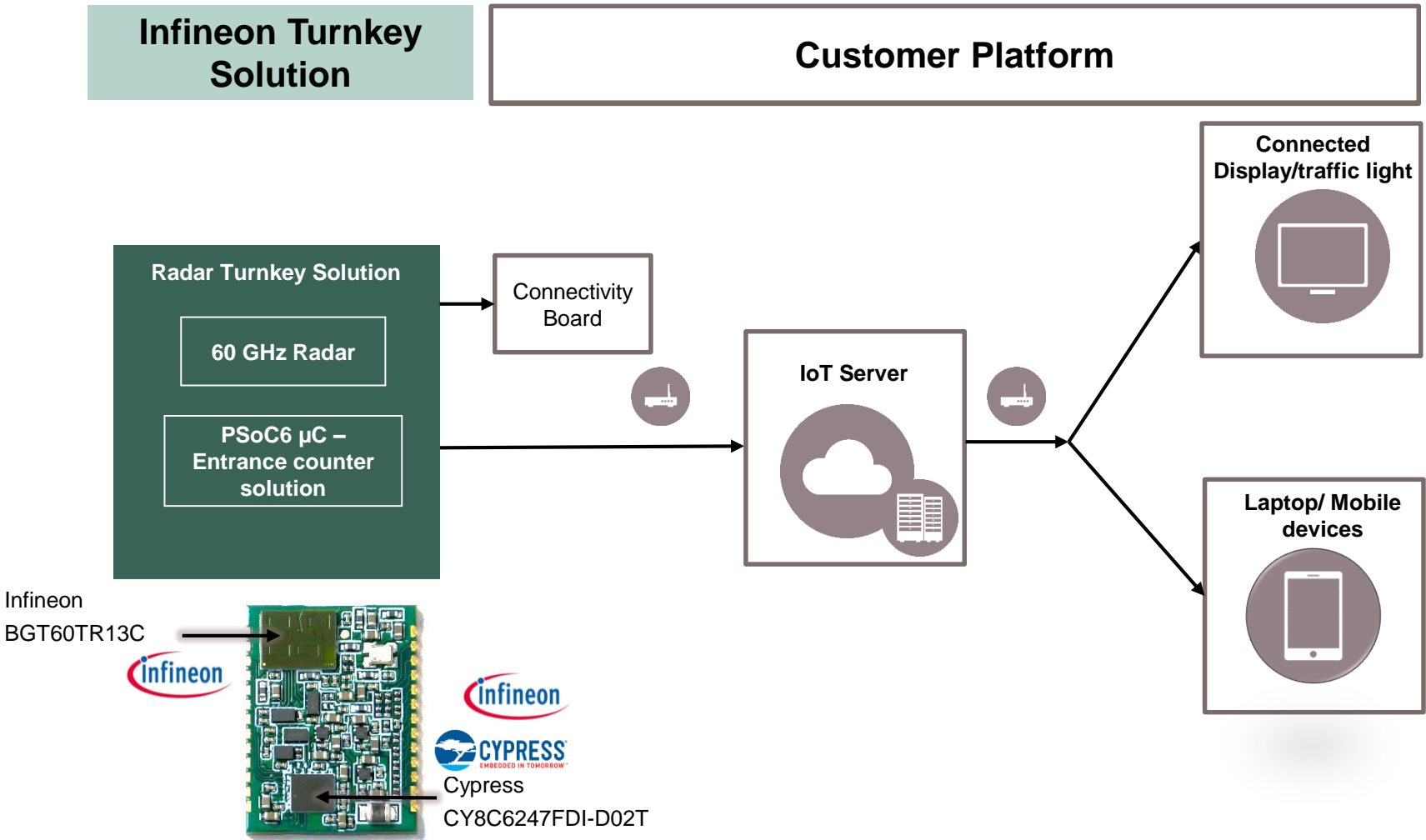
BGT60TR13C
60GHz XENSIV™ Radar

CY8C6247FDI
-D02T

15mmx20mm
detachable
form factor
board with
60 GHz radar

Motherboard for
configuration

Entrance Counter – Turnkey Solution

Infineon Turnkey Solution

Customer Platform

Radar Turnkey Solution

60 GHz Radar

PSoC6 µC – Entrance counter solution

Connectivity Board

IoT Server

Connected Display/traffic light

Laptop/ Mobile devices

Infineon BGT60TR13C

Cypress CY8C6247FDI-D02T

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