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## PerSe Presentation

SEMTECH CORPORATION



[semtech.com/PerSe](http://semtech.com/PerSe)



# Agenda

- PerSe Introduction
- PerSe Product Families
- PerSe Key Selling Points
- Summary





## Technology that Makes More Sense

- Derived from, and a contraction of, *Person Sensing*



## Introducing



### WHAT IS IT?

PerSe technology is for every personal connected consumer device.

### WHAT DOES IT DO?

PerSe intelligently senses human presence to enable smart responses in consumer devices, making Smart device smarter.

### WHAT ARE THE BENEFITS?

PerSe elevates user experience by optimizing RF performance and enhancing intuitive gesture control in wearables.

# Product Portfolio



**Person Sensing technology – Intelligently detects human presence**



**PerSe Connect**



SAR Sensor to optimize  
5G/4G/Wi-Fi Connectivity

**SX933x**

**SX932x**



**PerSe Connect Pro**



PD Sensor to improve high band  
5G mm Connectivity

**SX934x**



**PerSe Control**



Wearable Sensor to enhance  
smarter Control

**SX921x**

# Key Selling Points

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# PerSe™ Consumer Sensing Offerings



## Smartphones

5G SAR Sensor for  
Connectivity Optimization



## Laptops/Tablets

Wi-Fi 6 SAR Sensor for  
RF Improvement



## Wearables

Wearable Sensor for  
Gesture control

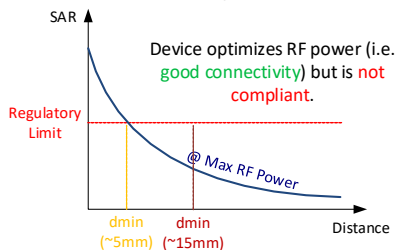
**PerSe Technology is for every personal connected consumer device**

# PerSe™ Consumer Sensing Benefits



COMPLIANCE ALERT

## Without User Proximity Detection



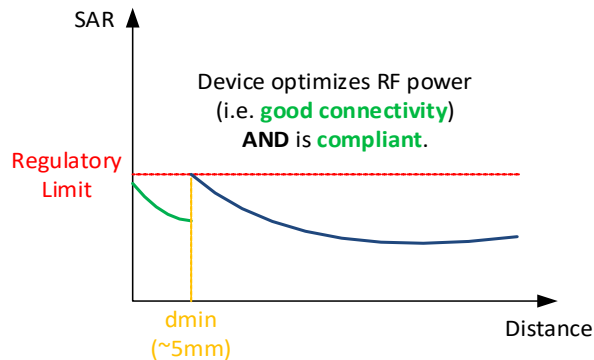
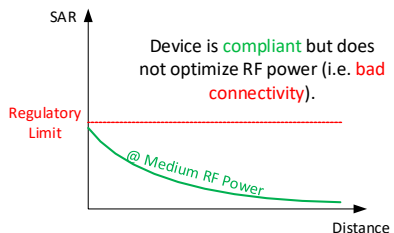
Performance Compliance



Smart Human Sensing



## Permanent Power Reduction



PerSe smart sensors intelligently senses human presence to enable smart responses



# PerSe™ Enhances Connectivity

- PerSe Smart sensor improves **connectivity** and **safety**
- Users experience enhanced performance and productivity
- Wi-Fi 6E is gaining acceptance, SAR sensors enable maximum throughput while guaranteeing safety compliance for work and infotainment

CONNECTIVITY



SAFETY



SAFETY FIRST

**PerSe Smart sensor is human first and improves connectivity and safety**

# PerSe™ Enhances Control

- Wear Detection - auto power on/off ,auto stop/resume, auto lock/unlock
- Gesture Control – tap, touch, swipe and scroll to enable smart assistant, noise cancelation, volume control and media playback functions.



**PerSe Smart sensors elevates user experience by enhancing intuitive gesture control**

# Smart Human Sensing

- Smart Engine can differentiate between human and objects such as table or protective cover
- Optimal RF control is achieved by enabling back off mode only when human is detected

## HUMAN SENSING



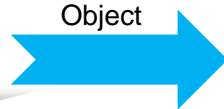
Back off Mode: **ON**

Human



Smart Engine

Object



## OBJECT DETECTION



Back off Mode: **OFF**



## Advantages & Summary

- PerSe elevates user experience by optimizing mobile connectivity and enhancing intuitive control in wearables
- Smart Sensors Market Leader
- Best-in-Class Product Performance
- Preferred Smart Sensor Provider
- World Class Stable Supply Chain





# Thank you

