



## Technology That Makes More Sense

Semtech PerSe technology is for every personal connected consumer device. PerSe makes your smart devices smarter—more intuitive and with longer battery life. It can be easily integrated into a variety of consumer devices including smartphones, tablets, laptops, and wearables.

PerSe is human first—the solution intelligently senses human presence to elicit a smart response in applications. It enables devices to provide robust detection regardless of the environment and optimizes performance in the presence of a user to take appropriate action.

PerSe elevates user experience by optimizing radio frequency (RF) performance in a wide range of wireless devices including 5G smartphones and enables high-quality connectivity and throughput. For wearable applications, this technology provides intuitive control such as auto on/off detection in earbuds to support “wear and go” functionality.



PerSe is human first



## Intelligent person sensing solutions for every personal connected consumer device.

### PRODUCT PORTFOLIO

#### PerSe Connect

SAR (Specific Absorption Rate) sensors optimize RF power to enhance the connectivity and safety compliance for a wide range of wireless technologies such as 5G sub-6/4G/Wi-Fi in smartphones, tablets and laptops.

#### PerSe Connect Pro

PD (Power Density) sensors are especially designed to provide the highest sensing capability to manage RF exposure and performance in high-frequency 5G mmWave devices.

#### PerSe Control

Human sensors enable intuitive control such as auto on/off detection, advanced gesture/media control and smart assistant activation in wearables to improve the user experience.

### KEY PRODUCT FEATURES

- Best-in-class sensing performance with exceptionally high signal-to-noise ratio
  - Device can be designed with longer detection distance or smaller sensor area
- Single or multi-channel sensor inputs (depending on platform selection)
- Semtech patented Smart Engine intelligently senses human presence (most platforms)
- Robust detection with advanced temperature compensation
- Automatic calibration
- Ultra-low power consumption
- I2C Serial Interface
- Operating temperature (-40° to +85°C)
- Compact footprint



PerSe datasheets are available for download at [semtech.com](https://www.semtech.com)

