

# XENSIV™ Sleep Quality Service

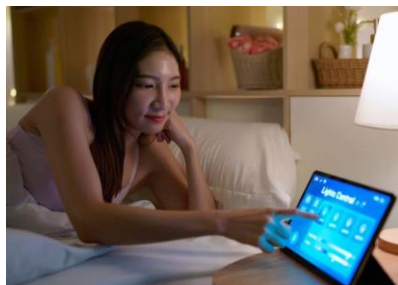
**Improve your sleep, improve your life!**

Infineon's XENSIV™ Sleep Quality Service (SQS) offers a contactless, privacy-centric sleep quality solution that can be easily integrated into OEM end devices such as bedside lamps, televisions, smart speakers and air purifiers.

Leveraging Infineon's XENSIV™ 60GHz radar, PSoC™ and Wi-Fi technologies, the XENSIV™ Sleep Quality Service is designed to measure and help optimize the user's sleep based on individual needs. OEMs can now bring their sleep quality enabled end devices to market in up to one third of the time and focus on functionality that leverages their ecosystem to improve users' quality of life.

Science shows that a lack of sleep can result in significant health risks such as depression or heart diseases. Furthermore, research suggests that fatigue from insufficient sleep results in a loss of over \$400 billion p.a. to the US economy while drowsy driving is a likely factor in as many as over 16% of fatal motor vehicle crashes. Monitoring sleep performance and improving sleep quality is one of the best ways of decreasing the risk of drowsy driving, enhancing peoples' health and ultimately improving their quality of life.

Infineon's XENSIV™ Sleep Quality Service automatically recognizes and adapts to a user's natural sleep rhythm to help improve their sleep quality by providing the information required to intelligently manage their surroundings, e.g.: adaptive lighting, heating, cooling and air quality.



## Key features

### Presence detection

- Self-activating sleep analysis when human presence is detected

### Sleep metrics

- Total sleep time, sleep efficiency, time to sleep, no. of awakes, sleep start time, sleep finish time

### Sleep stages

- Detects and monitors 3 sleep stages: Awake, REM and NREM

### Respiratory factor

- Detects breathing events by analyzing relative changes in breathing intensity

## Key benefits

### Rapid deployment

- Integrate our services to your devices and launch your sleep product in less than a year

### Significant savings

- Save millions in development and operational costs

### Scalable solutions

- Adapt and grow with dynamic market demands

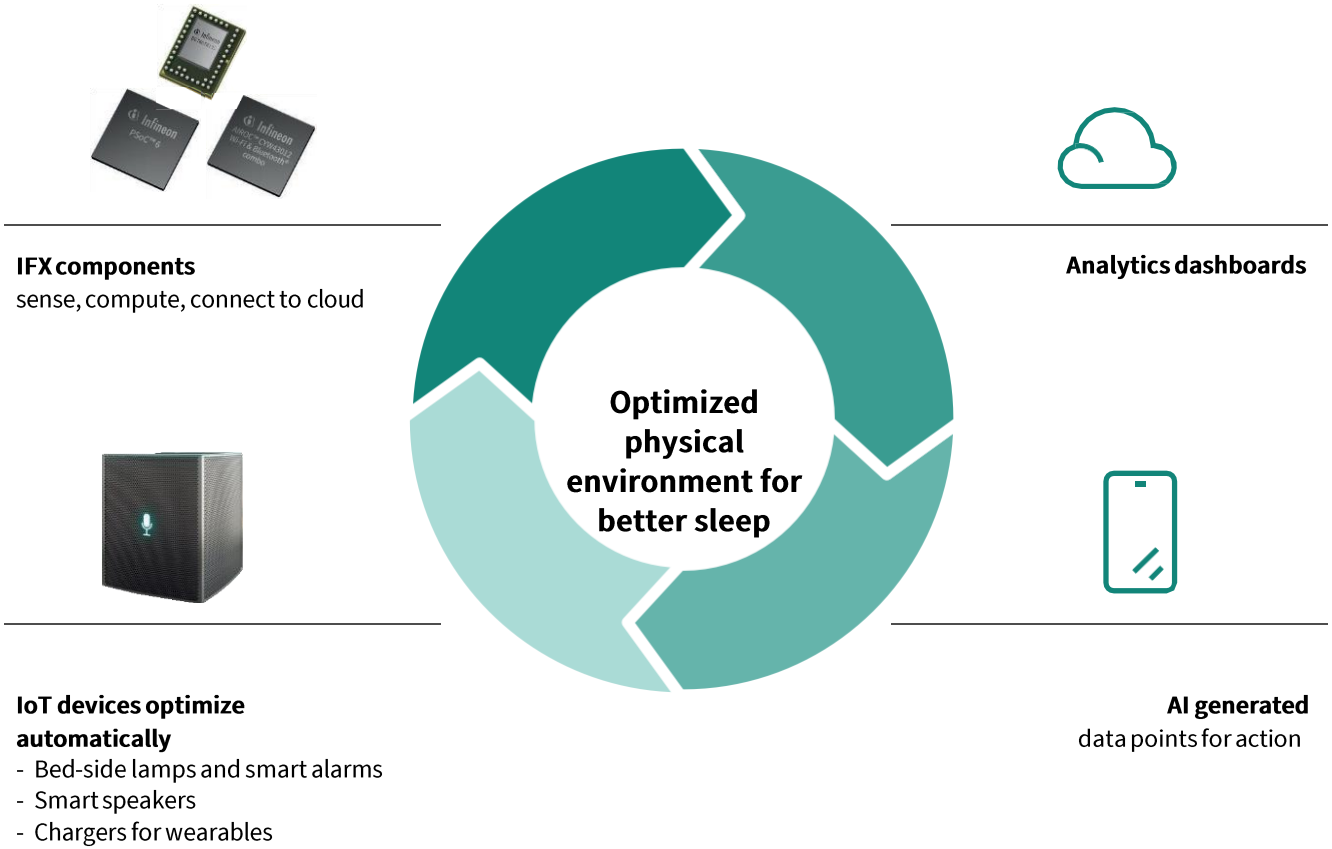
### Competitive edge

- Stay ahead of your competition by continuously integrating new features to your portfolio

**SOLUTION BRIEF**

OEMs can adopt XENSIV™ Sleep Quality Service quickly by integrating the required hardware components into their end device and the XENSIV™ Sleep Quality Service Cloud into their web infrastructure and mobile application. OEMs ship their product directly to

end users and retain full ownership of the customer relationship and data. For the end users, onboarding is simple and straightforward and once completed, they receive all information on their sleeping behavior via their OEM solutions.



Published by  
Infineon Technologies AG  
Am Campeon 1-15, 85579 Neubiberg  
Germany

© 2023 Infineon Technologies AG.  
All rights reserved.

**Public**

Document number:  
Date: 10/2023



Scan QR code and explore offering  
[www.infineon.com](http://www.infineon.com)

**Please note!**

This Document is for information purposes only and any information given herein shall in no event be regarded as a warranty, guarantee or description of any functionality, conditions and/or quality of our products or any suitability for a particular purpose. With regard to the technical specifications of our products, we kindly ask you to refer to the relevant product data sheets provided by us. Our customers and their technical departments are required to evaluate the suitability of our products for the intended application.

We reserve the right to change this document and/or the information given herein at any time.

**Additional information**

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office ([www.infineon.com](http://www.infineon.com)).

**Warnings**

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.