



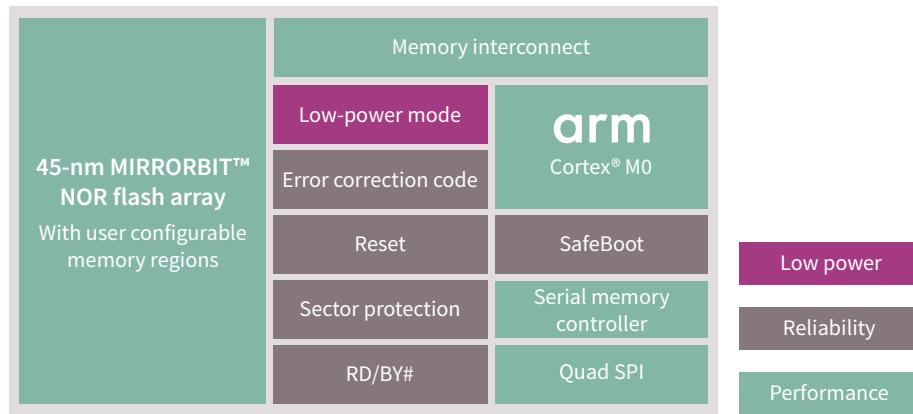
# SEMPER™ Nano

Compact footprint NOR flash for hearables and wearables

# SEMPER™ Nano



SEMPER™ Nano is Infineon's compact and power-efficient NOR flash memory for hearables and wearables. It provides 256 Mb density, enough capacity to support advanced features and capabilities such as active noise cancellation. Configurable sectors provide flexibility to store code and data in a single device.



## Key features

- › Extremely small 256 Mb NOR
- › Best-in-class low power
- › Enhanced reliability

## Key applications

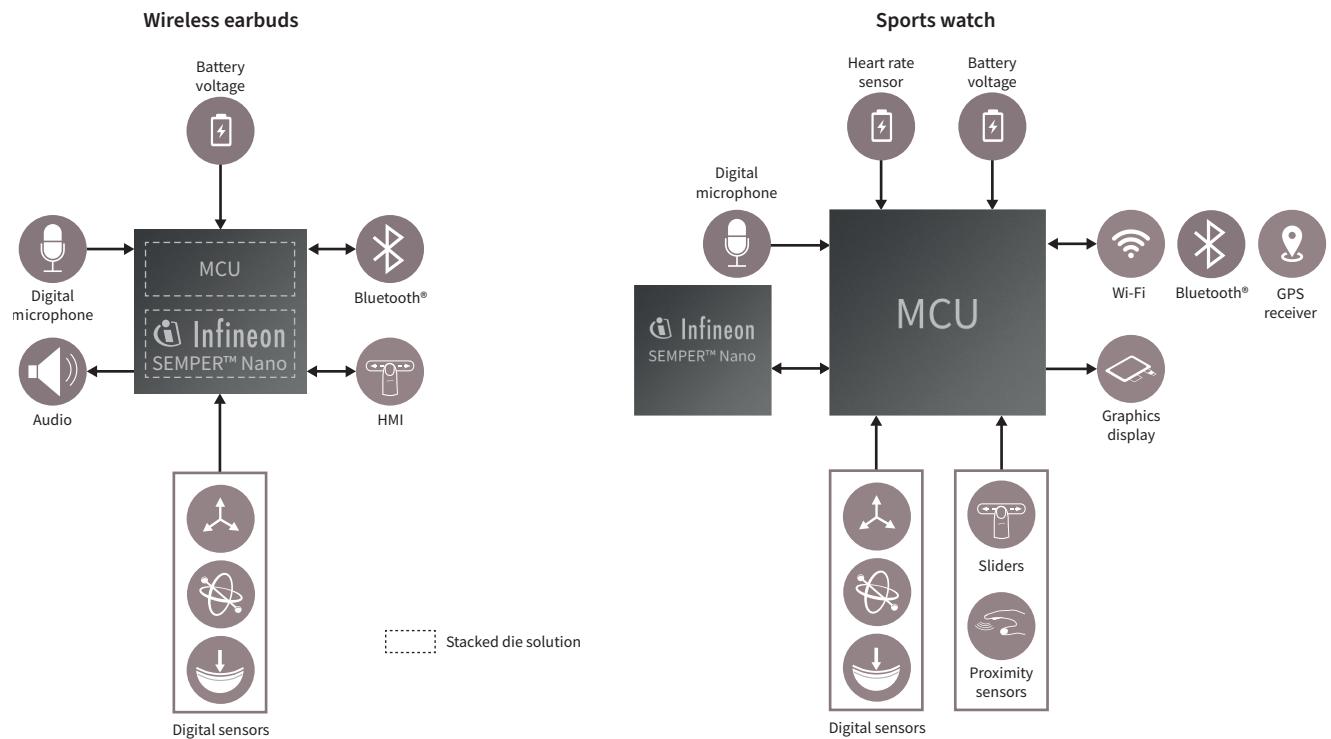
- › Wireless earbuds
- › Smart watches
- › Wireless headsets

## Benefits

- › Tiny footprint
- › Available in KGW and WLCSP
- › Lowest standby (5 µA) and deep power-down (1 µA) currents
- › Low active read current (30 mA)
- › Built-in Error Correction Code (ECC)
- › Built on proven 45 nm MIRRORBIT™ technology
- › BGA upon request



## SEMPER™ Nano use cases



## Development tools



## SEMPER™ Nano NOR flash ordering information

| Density: 256 Mb | Interface | Voltage | Speed             | Package                                  | Temperature grade  |
|-----------------|-----------|---------|-------------------|--|--|
| S25FS256T       | QSPI      | 1.8 V   | 80 MHz<br>104 MHz | KGW<br>WLCSP<br>24-ball BGA upon request | Commercial grade (0 °C to +70 °C)<br>Industrial grade (-40 °C to +85 °C) |

# Where to buy

Infineon distribution partners and sales offices:

[www.infineon.com/WhereToBuy](http://www.infineon.com/WhereToBuy)

# Service hotline

Infineon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

- › Germany ..... 0800 951 951 951 (German/English)
- › China, mainland ..... 4001 200 951 (Mandarin/English)
- › India ..... 000 800 4402 951 (English)
- › USA ..... 1-866 951 9519 (English/German)
- › Other countries ..... 00\* 800 951 951 951 (English/German)
- › Direct access ..... +49 89 234-0 (interconnection fee, German/English)

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