



SEMPER™ Nano

Compact footprint NOR flash for hearables and wearables

www.infineon.com/semper-nano



SEMPER™ Nano



COMPACT



LOW POWER



RELIABLE

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

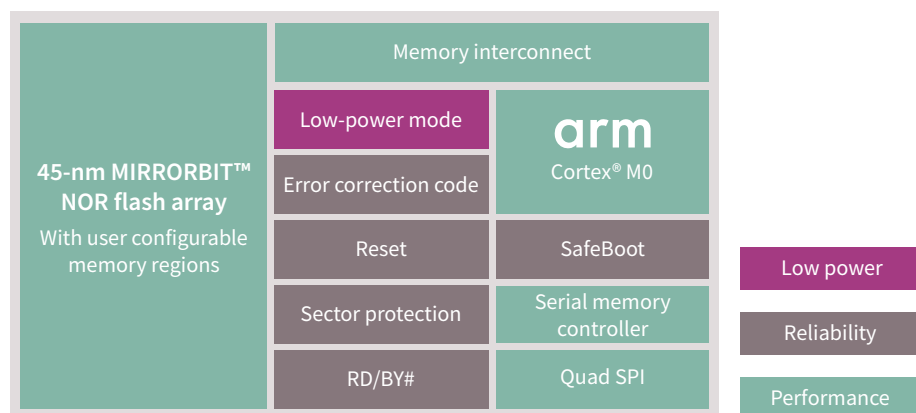
- > Extremely small 256 Mb NOR
- > Best-in-class low power
- > Enhanced reliability

Key applications

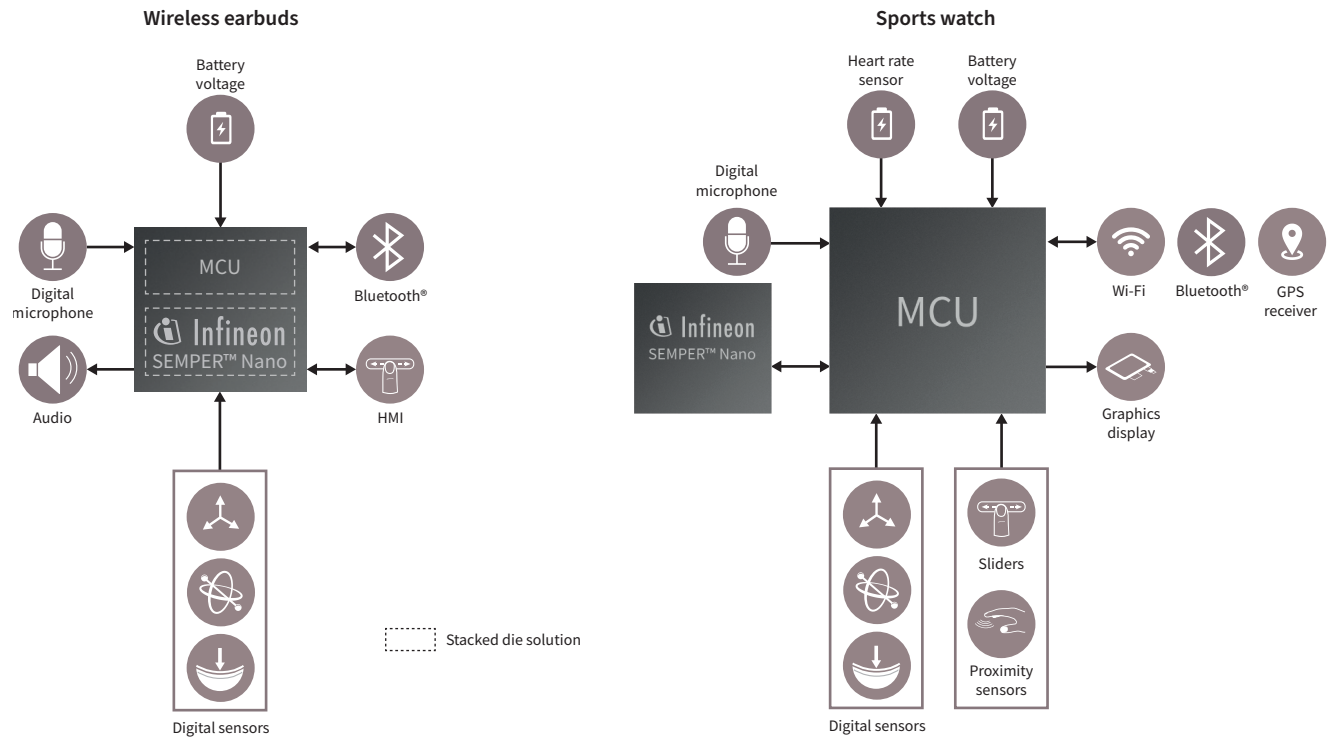
- > Wireless earbuds
- > Smart watches
- > Wireless headsets

Benefits

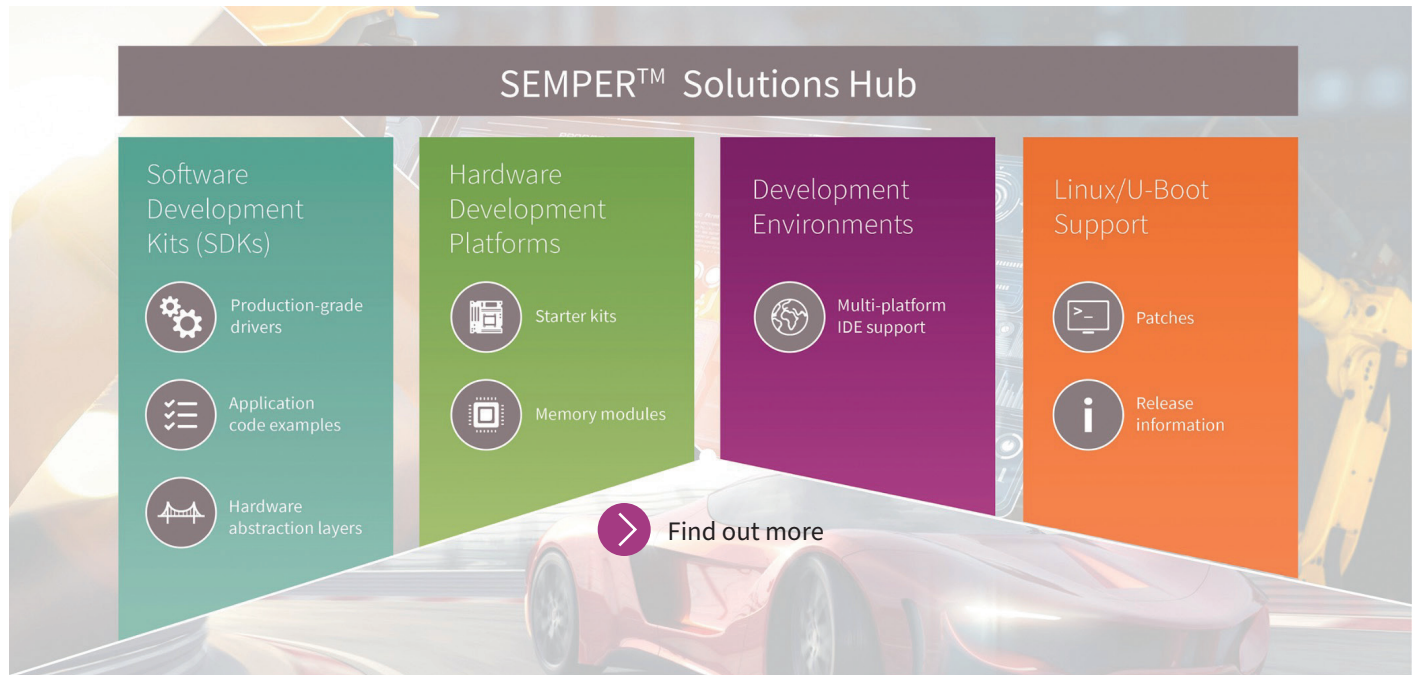
- > Tiny footprint
- > Available in KGW and WLCSF
- > Lowest standby (5 μ A) and deep power-down (1 μ A) currents
- > Low active read current (30 mA)
- > Built-in Error Correction Code (ECC)
- > Built on proven 45 nm MIRRORBIT™ technology
- > BGA upon request



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 104 MHz | KGW WLCSP 24-ball BGA upon request | Commercial grade (0 °C to +70 °C) Industrial grade (-40 °C to +85 °C) |

Where to buy

Infineon distribution partners and sales offices:

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)

* Please note: Some countries may require you to dial a code other than "00" to access this international number.
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www.infineon.com

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

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Date: 04/2022

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