

NORDIC
SEMICONDUCTOR

Smarter Things

An introduction to Nordic Semiconductor

Ultra Low Power Wireless Solutions

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A brief overview of Nordic Semiconductor



- Founded in 1982, Headquartered in Norway
- 1400+ employees
- R&D in Norway, Finland, Poland, Sweden, UK, India and the US
- Publicly listed in Norway under the ticker OBX:NOD
- Key partners: TSMC, AMKOR, ASE

Fabless semiconductor company - specialized in ULP wireless connectivity and embedded processing for IoT

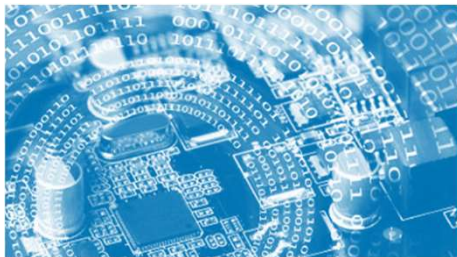
Leading short range connectivity market with Bluetooth LE and Thread/Zigbee

Low power cellular IoT with LTE-M and NB-IoT technologies

Expanding into Wi-Fi 6 IoT market with new device family

What do we make?

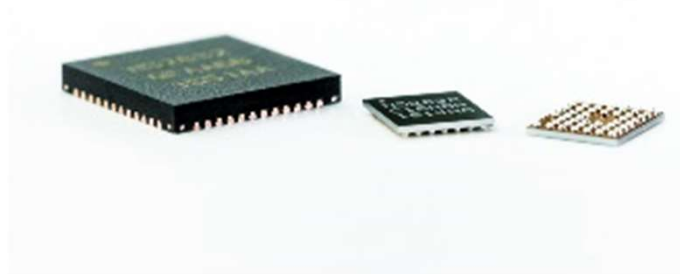
Embedded software



Wireless protocol stacks

Software Development Kits(SDKs)

Integrated circuits

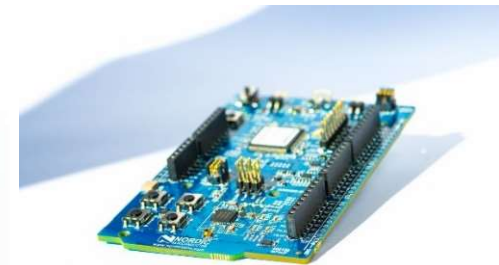


System-on-Chips (SoCs)

System-in-Package(SiPs)

Wireless connectivity ICs (Radios)

Development tools



Development kits

Software tools
Mobile Applications

A «fabless» semiconductor company



Nordic Semiconductor outsources the IC manufacturing to a Semiconductor foundry

- Taiwan Semiconductor Manufacturing Company (TSMC)

Testing and packaging of integrated circuits

- Amkor Technology (Philippines)
- ASE Group (Taiwan)

Sales and distribution

- Nordic only sells ICs through distributors.
- Logistic handled by stocking distributors



Nordic began the trend, and still the leader

Since early 2000s



Nordic #1 Since Day One
From Proprietary and ANT
Captured BLE Explosion

Solutions



From the Very Basic
To the Most Advanced
Leading in Software

Huge Customer Base



Massive Success with
nRF51 and nRF52
Upping the Game with nRF53 Working
with all Major Players

Powering an incredible range of products

Wearables



Enterprise
Automation



PC/Phone/Tablet HID



Smart Home



Gaming



Beacons



Remote Controls



Automotive



Healthcare/Medical



Toys



Payment/ID



Proximity Tags



Logistics/Transport



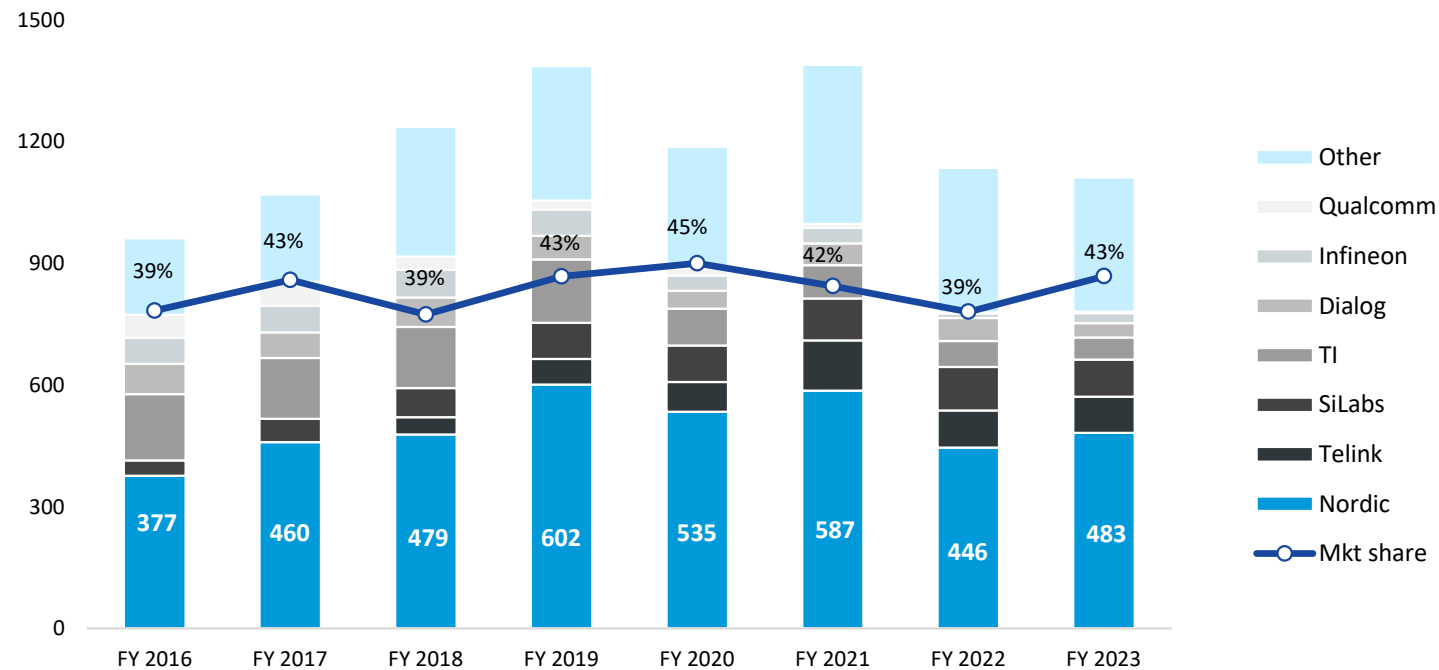
Industrial
Automation



Nordic gaining design win market share

Nordic no. of designs +8% in 2023, vs -10% for all others combined

Bluetooth Low Energy end-product certifications, last 12 months



Nordic
end-product
certifications

Q4'23
153 designs
45% mkt share

FY2023
483 designs
43% mkt share

*Source: DNB Markets/FCC

Nordic Semiconductor products

Short Range



Bluetooth Low Energy

Matter

Thread/Zigbee

Proprietary

Wi-Fi



Wi-Fi 6

2.4GHz +5GHz

Cellular



LTE-M

NB-IoT

GPS

PMIC



Li-Ion charger

LDO

DC/DC buck converter

nRF Cloud



Cloud connectivity

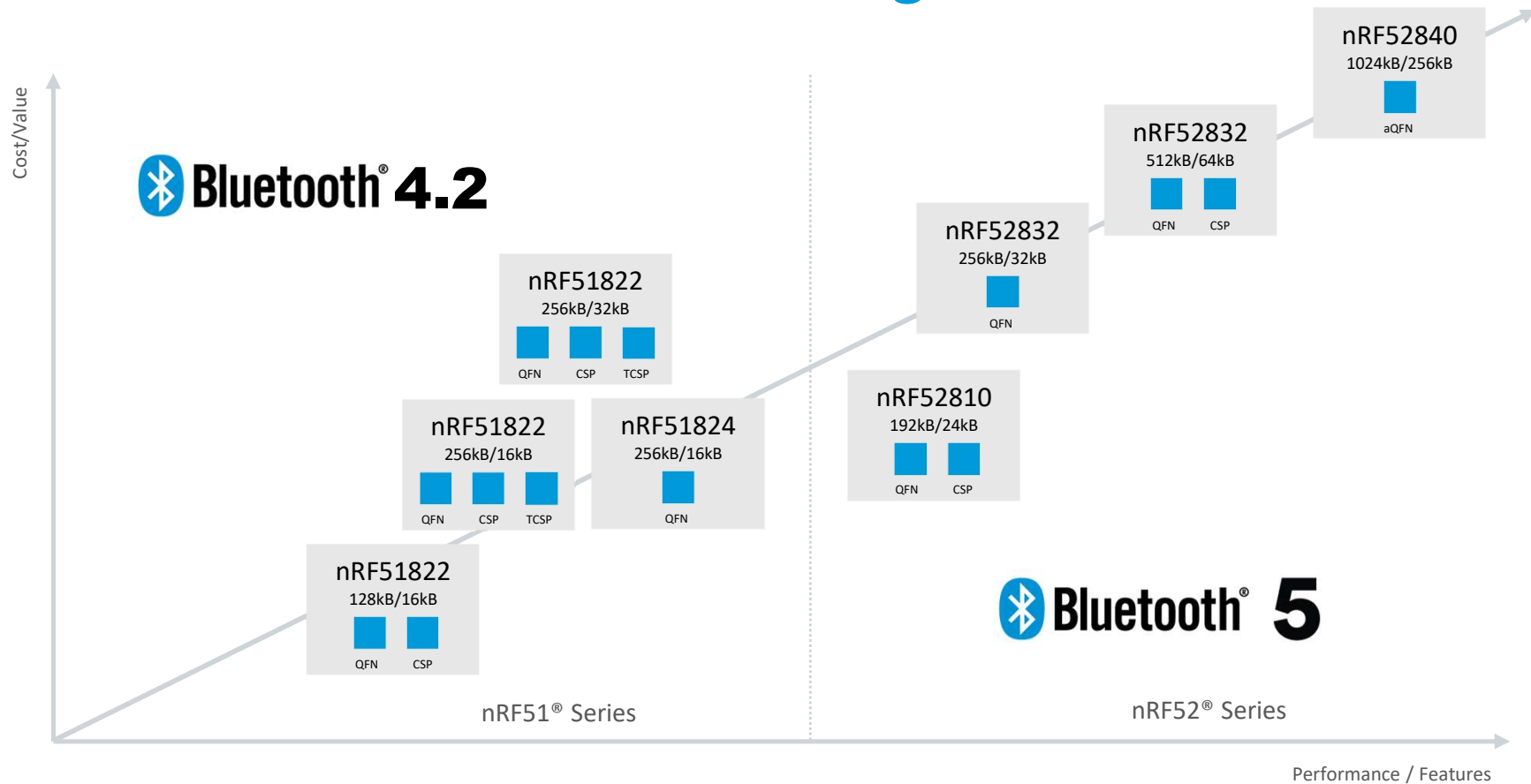
Location support

SCELL/MCELL

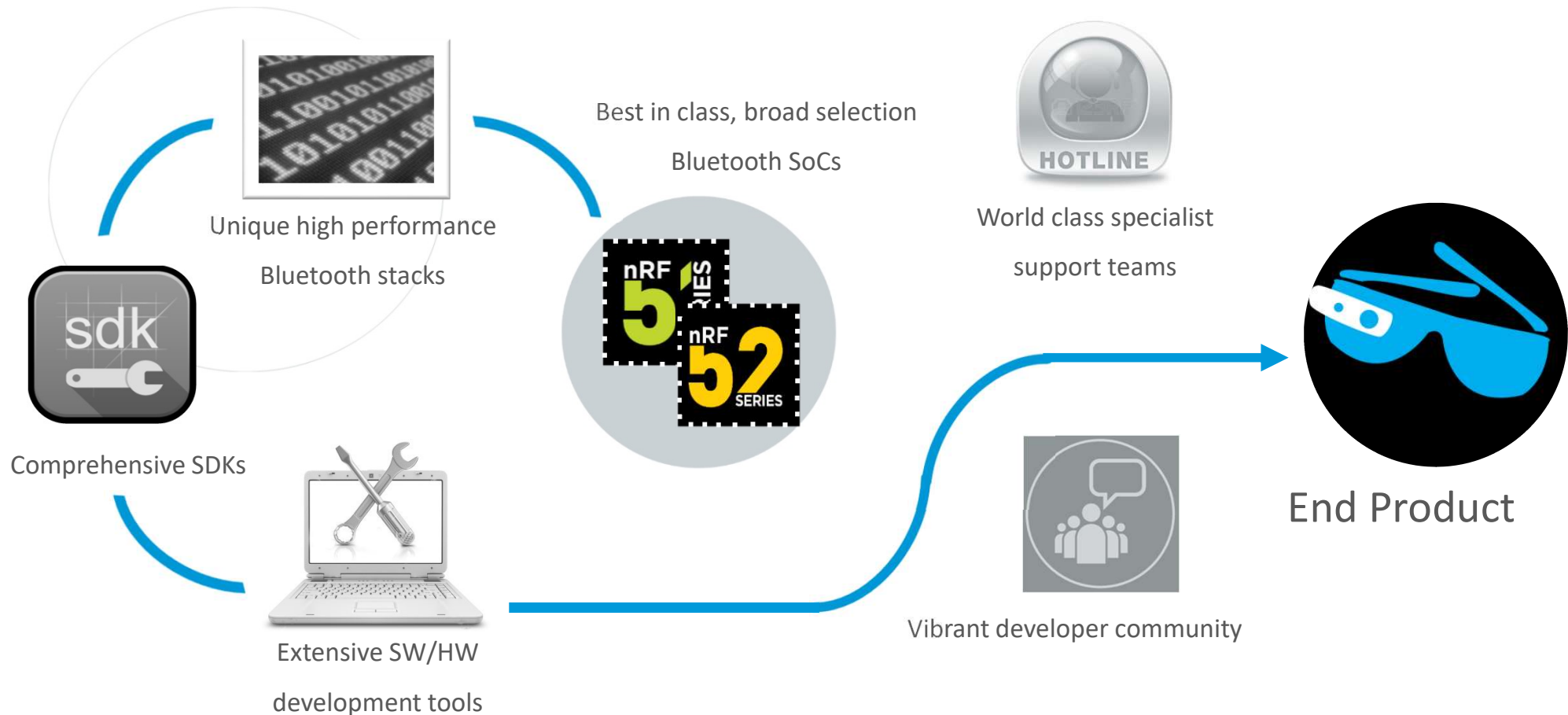
AGPS/PGPS

Device management

The nRF5x Series – Short range



The Complete Bluetooth® low energy solution





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