

Nordic ODM Micro-module Waterproof Type



AI Overview

Nordic Micro-Modules, such as the nRF52840 or nRF54L15-based MicroMods, are compact, low-power wireless modules that can be integrated into waterproof enclosures for IoT applications.

Overview Nordic Micro-Modules are small, modular development boards or SoM (System-on-Module) devices designed for flexible IoT prototyping and deployment. Popular modules include the nRF52840 MicroMod Processor and third-party modules based on the nRF54L15 SoC, which support Bluetooth Low Energy (BLE), Thread, Zigbee, Matter, and proprietary 2.4 GHz protocols. These modules feature ultra-low-power operation, ARM Cortex-M processors, and expanded memory options, making them suitable for battery-powered and long-term deployments.

Waterproof Integration While Nordic Micro-Modules themselves are not inherently waterproof, they can be housed in IP-rated enclosures to achieve waterproofing. This is common in IoT applications such as environmental sensors, wearable devices, or outdoor monitoring systems. When selecting a waterproof type, consider:

- Enclosure material:** Polycarbonate or ABS with IP67/IP68 rating.
- Connector sealing:** Use M.2 or castellated connectors with gaskets or conformal coatings.
- Antenna placement:** Ensure the module's antenna is positioned for optimal RF performance within the enclosure.

Key Features of Nordic Micro-Modules

- Processor & Memory:** ARM Cortex-M4 or M33 cores, with up to 512 KB RAM and 2 MB flash on nRF54L15 modules.
- Wireless Protocols:** BLE 5.x, Thread, Zigbee, Matter, and proprietary 2.4 GHz protocols.
- Power Efficiency:** Ultra-low power consumption suitable for battery-powered devices.
- Form Factor:** MicroMod standard (M.2 connector) allows plug-and-play integration with carrier boards.
- Security:** Secure boot, firmware update, and tamper detection on advanced modules like BL54L15.

.R...

Article Content

Nordic nRF52840 BLE Module (MDBT50Q-1MV2)

Raytac's MDBT50Q is a BT 5.2 stack (Bluetooth low energy or BLE) module designed based on Nordic nRF52840 SoC solution.

Our offer – Nordic Waterproofing

Application areas Nordic Waterproofing offers a broad range of waterproofing products and services for buildings and infrastructure. The company is primarily

Modules and Partners

The world's best-known module manufacturers offer modules/modems based on Nordic technology.

Nordic Semiconductor Cellular Modules – Mouser

Mouser offers inventory, pricing, & datasheets for Nordic Semiconductor Cellular Modules.

Bluetooth LE

Discover why thousands of developers worldwide trust Nordic's Bluetooth LE solutions to power billions of ultra-low-power IoT devices with unmatched reliability.

3rd-party modules

A range of module suppliers offer qualified and certified modules based on Nordic Semiconductor technology.

Nordic Semiconductor

Nordic Semiconductor ASA (formerly known as Nordic VLSI) was founded in 1983 and is a Norwegian fabless technology company with its headquarters in

BMH20C,BMH20E,BMH20M nRF54H20 BLE 6.0 modules — Fanstel

BMH20C is a Nordic nRF54H20 BLE 6.0 module with a dualcore Cortex M33 MCUs at up to 320MHz and a dualcore RISC-V at up to 320 MHz. Both 32 MHz and 32.768 KHz, -40C to +105C, 20PPM

Nordic Smart Home Contest High Performance Wifi Module Nordic

Nordic Smart Home Contest High Performance Wifi Module Nordic Wifi 6 And Ble 5.3 Combo Module Adopted Nrf7002 And Nrf5340, Find Complete Details about Nordic Smart Home Contest High

OEM Rechargeable Air Tag Tracker Custom Logo for IP67 Waterproof Nordic ...

Supplier Type: OEM ODM Antennas: NONE Size: 86mm*51*1.9mm Chip: Nordic
Battery: Lithium Battery 500mAh Color: Customized Waterproof level: IP67

WM02C, WM02E, Nordic nRF7002 WiFi 6 mModules — Fanstel

The nRF9131 from Nordic Semiconductors is a DECT NR+ and Cellular IoT System-in-Package (SiP) designed to support DECT NR+ and cellular operations

Mokosmart Waterproof Nordic Nrf52832 Bluetooth 5.0 OEM Beacon

Moko Manufacturer IP66 Waterproof Nordic NRF52832 5.0 OEM BLE Beacon ABS/TPU
120m Range Indoor Navigation Model H2 CE/FCC

nRF54L15 Modules

By integrating the nRF54L15 SoC, these modules enable you to leverage our complete wireless solutions - from wireless protocol stacks and SDKs to

Nordic Nrf52833 IoT Solution

Nordic nRF52833 IoT Solution Manufacturer of BLE Bluetooth Modules. MOKOSMART offers 40 GPIO, UART, SPI, and more. Ideal for -40 to +85°C

Nordic IoT Module with LoRaWAN V1.0.3, BLE & Micro

Explore LoRaWAN V 1.0.3 module with up to 4.35 mi range, built-in 4200 mAh power, and efficient performance for IoT applications.

New Nordic NRF52840 Micromod & Weather Carrier

Added to the list now is a new processor module based on the Nordic nRF52840 and a weather carrier board with three on-board sensors.

OEM/ODM Nordic Waterproof Silicone Adhesive Hook Waterproof and ...

Key attributes type Storage Holders & Racks material Silicone applicable space
Bathroom, Living Room, Kitchen Feature Portable, Self-Adhesive Style Modern use
Tools functional design Multifunction

Nordic Semi nRF93M1 IoT modules offer LTE Cat 1bis cellular ...

Development can be done with the Nordic development tools and nRF Connect SDK using the nRF93M1 for LTE Cat 1 bis connectivity. The nRF93M1 modules are currently being

nRF52832

nRF52832 - Versatile Bluetooth SoC supporting Bluetooth LE, Bluetooth Mesh and NFC

Nordic Modules

nRF54L15-ME54BS0A Nordic nRF54L15, PCB Antenna, U.FL Connector, Bluetooth
Modules, Nordic Modules \$6.00

Default Meta Title

Default Meta Description Technical Specifications of nRF9160 Supporting over 18,000 customers all around the world, 1NCE often receives questions in terms of how to choose the right IoT module for

Nordic Partners

Click here for module partners page Design Partners Nordic Design Partners are companies that are familiar with Nordic technologies and that offer design

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://energy-powertools.eu>

Email: info@energy-powertools.eu

Phone: +49 172 6389472

Address: Musterstraße 12, 10115 Berlin, Germany

This document is for informational purposes only. Specifications subject to change without notice.

