2.4 GHz carrier board USB and RS232 interfaces and foundation firmware, ideally suited for mobile credentials, location services, and equipment commissioning and maintenance.

One of the major challenges during product development is to move from prototype to production at the lowest cost and in the shortest time. With EMSi5340, you can reap both the benefits of cost and time saving. EMSi5340 is a 2.4 GHz carrier board based on the Nordic Semiconductor nRF5340 SoC. EMSi5340 is designed to provide a globally certified hardware platform to support application and software companies to facilitate product introduction without the burden of hardware development, component sourcing and product certification.

EMSi5340's dual-core processor with Nordicsemi's nRF Connect SDK allows the wireless connectivity to run on one core and the applications to operate on the second core. Additionally, its full speed USB and RS232/UART provide options for wired connectivity. EMSi5340 comes with advanced security like trusted execution, root-of-trust and secure key storage security features apart from increased memory. The state-of-the-art Arm CryptoCell-312 provides hardware-accelerated cryptography; and together with the key management unit (KMU) peripheral, root-of-trust and secure key storage are implemented.

EMSi5340 comes with pre-loaded software and operating system to load customer applications by Device Firmware Update (DFU) over USB or RS232 and Over the Air (OTA) update with from iOS and Android platforms. This allows users to focus on their applications expediting their products to the market. EMSi5340 provides a certified hardware platform to facilitate mobile credentials for physical and logical access control and locations management solutions.

The security support and the multi core architecture make the nRF5340 the top-of-the-line of the Nordicsemi line when compared to the nRF52832, nRF52840 or the nRF52833.

The product's hardware components such as 32KHz crystal and components for DC-to-DC power supply reduce power consumption. EMSi5340 can be powered over USB, external 5V power or from a CR2450 battery, with additional battery options for larger capacity and recharge capability as per customer requirements.

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…last mile integration

EMS INTEGRATORS **EMSi5340**

EMSi5340' hardware components reduce power consumption and are available with additional battery options such as large capacity and rechargeable.

Splash-resistant enclosure
49mm x 34mm x10.5mm (w/o battery)
52mm x 37mm x 21mm (w/ battery)

Key Design Features:

- Mounted in a splash-resistant enclosure
- USB (micro) and RS232 interface
- Power input
- Two LEDs and one beeper
- Battery back-up option
- Supports mobile credentials
- Provide service access to equipment

Product Specifications:

- **Interfaces** 2.4GHz High-speed USB interface (Virtual COM Port), RS232 connectivity to existing platforms with a 5V voltage level.

- **Power** – CR 2450, Options to allow batteries of different sizes and capabilities. USB 5V DC power and, extensibility to handle other voltage levels.

- **Software** – EMSi5340 foundation firmware with OTA (Over the Air), Serial OTA, predefined configurations for low power and battery-operated use.
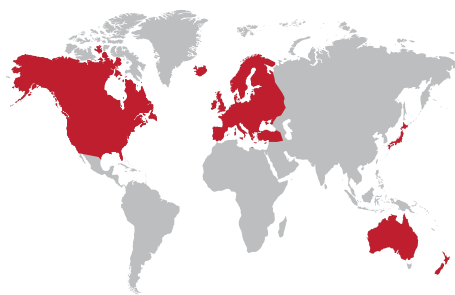
Availability:

EMSi5340 comes with a splash-resistant enclosure in two colors – *black and white.*

EMSi5340 is available both as a finished product and to be integrated on the customer mainboard.

Certifications:

Certified as a full system on 2.4 GHz with FCC (USA), IC (Canada), CE (Europe), AS/NZS (Australia/New Zealand) and TELEC (Japan).

Market Segments:

- Secure Printing
- Medical Devices
- Fleet Management
- Vending
- Kiosk EV Chargers
- Access Control
- Operator Authentication
- Automated Locker
- Parking
- Time and Attendance
- Industrial Dispenser
- Fitness Equipment

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