

EMS INTEGRATORS **EMSi5340**

**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.



... last mile integration

