InstantFind® DK (Development Kit) Board
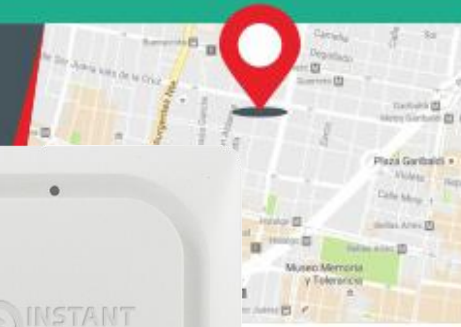
ITM-9420 DK

InstantFind®, Bluetooth Low Energy, Bluetooth mesh, NFC, Thread and Zigbee development kit.

The ITM-9420 DK is a versatile single-board development kit for InstantFind®, Bluetooth Low Energy, Bluetooth mesh, Thread, Zigbee, 802.15.4, ANT and 2.4 GHz proprietary applications on the nRF52840 SoC. ITM-9420 DK can also be used for Matter over Thread where Thread is used for transport and Bluetooth LE for commissioning. Matter devices based on Thread are required to feature Bluetooth LE concurrently to enable adding new devices to a network. InstantFind® is a Bluetooth Module. In addition to having all the functions of Bluetooth, it can also upload any data to the cloud (time/coordinates/temperature/ Humidity/height various information).

The DK is typically powered with USB, but can be powered by a wide range of sources, within the supply range of 1.7 to 5.0 V. In addition to USB, it can be powered with an external source, but also includes a AAx3 battery socket and a [TODO] rechargeable battery, for in-field testing. Current consumption can be measured by using the dedicated current measurement pins.

Features:

- nRF52840 flash-based Bluetooth® Low Energy, ANT™/ANT+™ SoC solution
- Support for nRF52840 and nRF52810 SoCs development
- Buttons and LEDs for user interaction
- I/O interface for Arduino form factor plug-in modules
- Arm Mbed DAPLink Debugger with debug out functionality
- UART interface through virtual COM port
- USB/ Flash memory
- Drag-and-drop Mass Storage Device (MSD) programming
- Support for NFC-A Listen Mode
- Compact housing design

What is InstantFind®?

InstantFind® Module is an ultra-low-power Bluetooth Module (long distance/ultra-low power consumption). It transmits once every 2 seconds and only requires < 0.08mW. It can replace any Bluetooth Module on the market. Provide original Bluetooth functions and services. in addition to the Bluetooth transmission function, it can also perform background one-way low-speed data upload to the cloud at a few Bytes (text) per second without network or pairing.