

# InSight™ USB Link

USB Plug-and-Play FLASH Programming for the EM250/EM260

Tools

Fact Sheet

## Introduction

Ember's InSight USB Link is a low-cost FLASH programming device used with the EM250 and EM260 family of RF transceivers. The programmer connects to any PC via USB and to Ember's Radio Control Module (RCM) via a 10-pin cable with keyed connector.

USB Link kit includes the plug-and-play USB programmer hardware and easy to use software tools that read and write customer applications on any Ember-based radio module including customer-designed devices and standard Ember RCMs.

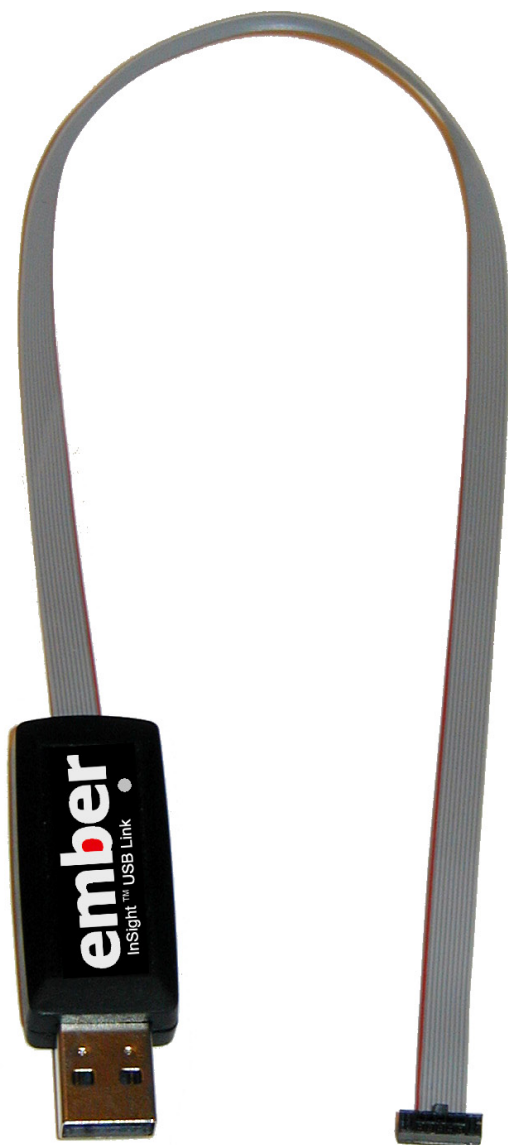
## Versatile Functionality

Developers can now use the simple USB-interface programming tool to program FLASH memory on the EM250/EM260 RF transceiver platform with updated ZigBee networking software and customer applications. InSight USB Link is useful in all stages of wireless product development and production.

During product development, USB Link can be used to easily program customer ZigBee applications to the EM250 RF transceiver. USB Link also serves as a low-cost programming tool for EM250/EM260-based products in low-volume production, enabling customers to effortlessly scale their FLASH programming needs.

## InSight USB Link and the InSight Adapter

When applied in conjunction with an InSight Development Kit or JumpStart Kit, USB Link performs the same FLASH programming/reading functions found in the Ethernet-based Ember InSight Adapter. However, unlike the InSight Adapter, which performs many network testing services such as network-level debug and packet trace functions, the USB Link programmer is specifically designed to program and read customer applications on the EM250 platform. The addition of USB Link programmers with the InSight Development environment provides dedicated low-cost FLASH programming capability while freeing InSight Adapters to perform vital network-level debugging and testing.



## Software

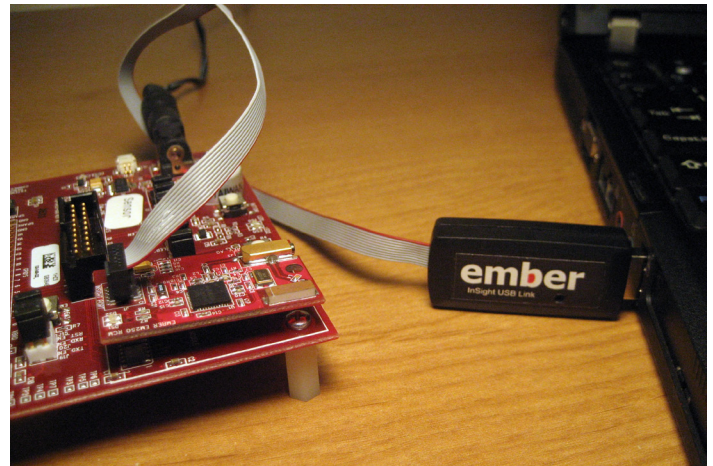
The EM2USB command line interface is an easy-to-use software platform that allows developers to quickly burn application software and updated networking software directly to FLASH memory on the EM250.

## Product Features

- 10-pin interface connects to standard EM250/EM260 Radio Control Modules (RCM)
- Plug-and-play USB interface
- Includes simple EM2USB command line interface software. Command functions include
  - EM2USBLoad: Loads firmware onto the EM250/EM260 transceiver
  - EM2USBRead: Reads firmware from the EM250/EM260 chip
  - EM2USBPatch: Updates specific locations in either an EM250/EM260 chip or an image file.

## Product Profile

- Low-profile USB connector
- 12 inch data cable with 10-pin connector
- Cable connector
- Red/Green activity LED



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## About Ember

Ember develops wireless sensor and control network technologies that help make our living and working environments safer, smarter, more comfortable and energy efficient. Ember's ZigBee-based semiconductors and software enable communication between devices embedded in a variety of building and home automation products. Ember is a lead member of the ZigBee Alliance, and its platform is the National Technical Systems' (NTS) "Golden Suite" for 802.15.4/ZigBee interoperability testing.

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