

8-bit Wireless Development Kit - 868 MHz MRF89XA

Part Number: DM182015-2

## 8-bit Wireless Development Kit – 868 MHz MRF89XA

**8-bit Wireless Development Kit – 868 MHz MRF89XA** is an easy-to-use evaluation and development platform for Sub GHz application designers. This kit includes Microchip's MRF89XAM8A transceiver module and also features Microchip's PIC18 XLP microcontroller family. The kit includes complete hardware needed to rapidly prototype wireless applications. The demonstration kit is pre-programmed with MiWi™ protocol stack and you can find the demo instructions in the user's guide. To learn more about MiWi wireless protocol, please visit [www.microchip.com/MiWi](http://www.microchip.com/MiWi).

The PIC18 demonstration board is equipped with a 28-pin PICtail™ connector to interface with Microchip's wireless transceiver PICtail daughter boards such as MRF24J40MA, MRF89XAM8A and MRF49XA.

Developers can reprogram or modify the PIC18 MCU Flash memory and develop and debug application code all on the same platform.

Note: This kit is not intended for ZigBee® development. For ZigBee development, please visit [www.microchip.com/zigbee](http://www.microchip.com/zigbee)

### Features

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Key features of **8-bit Wireless Development Kit – 868 MHz MRF89XA** include:

- MiWi stack support – MiWi, MiWi P2P and MiWi Pro
- PIC18F46J50 MCU featuring nanoWatt XLP Technology for extreme low power
- MRF89XAM8A ETSI compliant module with 25AA02E48 EUI Node Identity serial EEPROM on PICtail daughter board
- MCP9700A Temperature sensor
- LCD display to develop interactive wireless demos (Removable for lower power)
- Board can be powered by either AA batteries or 9V power supply or External Power supply or USB
- RS-232 Serial Accessory board – for debug purposes
- Support other radios – both in 2.4GHz and Sub-GHz frequencies through PICtail connector

### Package Contents

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- Two PIC18 Wireless Development Boards
- Two MRF89XAM8A transceiver PICtail daughter boards
- Two RS-232 Serial Accessory boards
- Two LCD Serial Accessory boards
- Two Mini B USB cables
- Two RS-232 serial cables