

# Wi-Fi® Connectivity Network Controller 102

1 Day, Hands-On Training



**Johannesburg**  
**Tuesday, 23 October 2018**

**Pretoria**  
**Wednesday, 24 October 2018**

## OBJECTIVE :

To provide an introduction to Wi-Fi® 802.11 b/g/n standard basics.

In this full day workshop, delegates will learn about the 'key' concepts needed to implement embedded Wi-Fi® connectivity to a host using a family of Network Controllers with built-in wireless (Wi-Fi® or Bluetooth®) that are driving a higher degree of integration in IoT applications.

## TOPICS / FOCUS :

The focus is given to the 'key' design considerations necessary when adding Wi-Fi® connectivity to embedded applications.

Attendees will learn the basics of how to start with Wi-Fi design & gain an understanding of how to add real world applications onto a host MCU, to operate together with the WINC15X0 and WINC3400.

The differences and use cases where a standalone Wi-Fi vs Wi-Fi-BLE combo fit in day-to-day applications will be highlighted

Additional topics include:

- An overview of the WINC family of devices
- Host driver interface for the WINC family, as well as provisioning and firmware upgrades on the WINC15x0
- Lab exercises will demonstrate how to open, compile and execute an Atmel Software Framework (ASF) example in order to scan and connect to available Access Points
- Provision of the WINC3400 will be discussed

## DELEGATE REQUIREMENTS :

Development Tools and own Laptop pre-loaded with the required software which will be provided.

## TOOLS REQUIRED/PROVIDED :

- ATSAMD21-XPRO – ATSAMD21 Xplained Pro
- ATWINC1500-XPRO – ATWINC1500 Xplained Pro



All courses start at 08H00. A minimum number of attendees per course will be required to proceed.

If minimum numbers are not reached, pre-registered delegates will be contacted directly to make alternative arrangements.

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