

Microcontrollers

Touch Solutions

Automotive

Wireless Connectivity

Bluetooth

802.15.4

Wi-Fi

→ SmartConnect

SmartDirect

Smart RF

SigFox

RF Identification

IR Control

Cloud Partners

Smart Energy

Memory

Drivers and Sensors

Security ICs

Programmable Logic

Analog

Rad Hard

Digital Broadcast

Microcontroller Selector

Home > Products > Wireless Connectivity > Wi-Fi > SmartConnect

WINC3400 Xplained PRO Starter Kit

Overview

Devices

Documents

Applications

Related Tools



Buy Now

The Atmel® ATWINC3400-XSTK evaluation kit is a hardware platform to evaluate the Atmel® WINC3400-MR210CA module and CRTX-M0+ reference.

Atmel® SmartConnect-WINC3400 is an IEEE 802.11 b/g/n/BLE4.0 IOT network controller SoC. It is the ideal add-On to existing MCU solutions bringing WiFi and BLE Network capabilities through UART or SPI-to-WiFi interface. The WINC3400 connects to any Atmel AVR or SMART MCU with minimal resource requirements. The WINC3400 most advanced mode is a single stream 1x1 802.11n mode providing up to 72 Mbps PHY throughput. WINC3400 features fully integrated Power Amplifier, LNA, Switch and Power Management. ATWINC3400 also features an on-chip microcontroller and integrated flash memory for system software with built in coexistence mechanism for concurrent Wi-Fi & BLE functionality. The only external clock source needed for the WINC3400 is a high-speed crystal or oscillator with a wide variety of reference clock frequencies supported (between 12 – 32 MHz). The WINC3400 is available in a QFN package.

Key Features

- **IEEE 802.11: IEEE 802.11 b/g/n 20MHz (1x1) solution**
- **IEEE 802.11: Single spatial stream in 2.4GHz ISM band**
- **IEEE 802.11: Integrated PA and T/R Switch**
- **IEEE 802.11: Superior Sensitivity and Range via advanced PHY signal processing**
- **IEEE 802.11: Operating temperature range of -40°C to +85°C**
- **IEEE 802.11: On-Chip Network Stack to offload MCU**
- **IEEE 802.11: Integrated Network IP stack to minimize host CPU requirements**
- **IEEE 802.11: Network features: TCP, UDP, DHCP, ARP, HTTP, SSL, and DNS**
- **Bluetooth: On-Chip Network Stack to offload MCU**
- **Bluetooth: BLE 4.0**
- **Bluetooth: Class 1 & 2 transmission**
- **Bluetooth: Adaptive Frequency Hopping**
- **Bluetooth: HCI (Host Control Interface) via high speed UART**
- **Bluetooth: Integrated PA and T/R Switch**
- **Bluetooth: Superior Sensitivity and Range**
- **WINC3400-SHIELD: SPI support**
- **WINC3400-SHIELD: Power supply**
- **WINC3400-SHIELD: Debug headers**

Ordering Information

Ordering Code	Atmel Store Availability ¹	Unit Price ²	Buy Online
ATWINC3400-XSTK		Varies	Check Distributor

¹Backlog orders can be placed for items currently not available.

²Suggested retail price per unit for budgetary use only.





Products

- Microcontrollers
- Touch Solutions
- Automotive
- Wireless Connectivity
- Smart Energy
- Memory
- Drivers and Sensors
- Security ICs
- Programmable Logic
- Analog
- Rad Hard
- Digital Broadcast

Applications

- Automotive
- Building Automation
- Home Appliances
- Home Entertainment
- Industrial Automation
- Lighting
- Internet of Things (IoT)
- Smart Energy
- Mobile Electronics
- PC Peripherals
- Wearables

Support

- Boards and Kits
- Tools and Software
- Development Tools
- Document Library
- Training
- Support Resources
- Third-Party Tools/Support
- Design Consultants

About

- Corporate
- Press Room
- Contact Atmel
- Investors
- Careers
- Suppliers
- Embedded Design Blog
- Quality
- Compliance

Contact Atmel

- Buy
- Atmel Store FAQs
- Technical Support
- Communities