

## Module 802.11b/g/n 2.472GHz 11000Kbps 28-Pin SMD Module Tray



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** MODULE

**Product Type:** RF Integrated Circuits

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

**Microchip's ATWINC1500 is an IEEE 802.11 b/g/n IoT network controller that has networking stack built on the chip.** It is the ideal add-on to existing MCU solutions bringing Wi-Fi and Network capabilities through SPI-to-Wi-Fi interface. The ATWINC1500 connects to any SAM or PIC MCU with minimal resource requirements. The ATWINC1500's most advanced mode is a single stream 1x1 802.11n mode. Networking stack consists of HTTP, TCP, IP and Ethernet Protocols corresponding to Application, Transport, Internet and Data Link Layers. The ATWINC1500 features a fully integrated Power Amplifier, LNA, Switch and Power Management. The ATWINC1500 provides internal Flash memory to store Firmware. The only external clock source needed for the ATWINC1500 is a high-speed crystal or oscillator (26 MHz). The ATWINC1500 is available in a QFN package or as a certified module.

Expanding on the ATWINC1500 with 4Mb Flash, the ATWINC**1510** adds 8Mb Flash memory for even greater flexibility and the ability to store Host MCU files.

A MCU host driver can be found in the Advanced Software Framework (ASF) and in MPLAB(r) Harmony v3.

Microchip's complimentary and confidential Wireless Check online design review service is available for customers who have selected our products for their application design-in\*.

\*The online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

The latest major firmware release is: v19.7.6. This is available as a firmware package - The v19.7.6 firmware package and release notes are available in the documents section of this page.

[Click here for our Firmware Release Summary](#)

Latest module firmware available is v19.6.1:

ATWINC1510-MR210PB1961

ATWINC1510-MR210UB1961

Looking for a chip level solution? Check out the IC solution here [ATWINC1500-IC](#)

<https://mu.microchip.com/how-to-wifi-configuring-the-winc1500-driver-with-the-harmony-3-configurator>

## Key Features

Single-band 2.4GHz b/g/n IoT Network Controller

Extreme low power

Operating voltage: 3.0V to 4.2V

Serial host interface: SPI

Network services: DHCP, DNS, TCP/IP (IPv4), UDP, HTTP, HTTPS

Chip and PCB antenna (ATWINC1500-MR210PBxxxx)

Chip and u.FL connector (ATWINC1500-MR210UBxxxx)

ATWINC1500-MR210PBxxxx (4Mb flash)

ATWINC1510-MR210PBxxxx (8Mb flash)

Integrated into Atmel Studio 7 - See ASF release notes

Atmel Software Framework (ASF) Free Software download available

Small form factor module measures just 21.7 x 14.7mm

Agency Certified in the US, Canada, Europe, Japan, Korea, China, India and Taiwan

Security protocols supported: WPA/WPA2 Personal and Enterprise, TLS, SSL

## Recommended For You

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### **ATWINC1500-MR210PB**

Microchip Technology, Inc

MODULE

### **ATZB-900-B0**

Microchip Technology, Inc

MODULE

### **ATWINC1510-MR210PB1952**

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MODULE

### **ATSAMB11-MR510CA**

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39LMODULE

### **ATWINC1510-MR210PB1961**

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MODULE

### **ATWINC3400-MR210UA122**

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MODULE-36

### **ATWILC1000-MR110PB**

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MODULE

### **ATWINC1500-MR210UB1954**

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MODULE-28

### **ATWINC3400-MR210CA122**

Microchip Technology, Inc

MODULE

### **ATWILC1000-MR110UB**

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MODULE

### **ATSAMW25H18-MR510PB**

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51LMODULE

### **ATWILC3000-MR110UA**

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MODULE

**ATZB-A24-U0R**

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MODULE

**ATWINC1500-MR210PB1952**

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MODULE

**ATZB-X0-256-3-0-C**

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MODULE