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

Manufacturer:	Microchip Technology, Inc
Package/Case:	MODULE
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

Microchip's ATWINC1500 is an IEEE 802.11 b/g/n IoT network controller. 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.

The ATWINC1500 features a fully integrated Power Amplifier, LNA, Switch and Power Management. The WINC1500 provides internal Flash memory as well as multiple peripheral interfaces including UART and SPI. 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.

The ATWINC1500 has 4 Mb of flash memory which can be used for system software. The ATWINC1510 has 8 Mb flash memory for even greater flexibility.

A MCU host driver can be found in the Advanced Software Framework (ASF).

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.

Firmware Release SummaryLatest major firmware release: v19.6.1, which is available in ASF 3.42 and later.

Module part numbers with v19.6.1 firmware:ATWINC1500-MR210PB1961ATWINC1500-MR210UB1961ATWINC1510-MR210PB1961ATWINC1510-MR210UB1961

For product comparison, please consider:ATWINC3400,ATWILC1000,ATWILC3000

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

ATWINC1500-MR210PB

Microchip Technology, Inc

MODULE

ATZB-900-B0

Microchip Technology, Inc

MODULE

ATWINC1510-MR210PB1952

Microchip Technology, Inc

MODULE

ATSAMB11-MR510CA

Microchip Technology, Inc

39LMODULE

ATWINC1510-MR210PB1961

Microchip Technology, Inc

MODULE

ATWINC3400-MR210UA122

Microchip Technology, Inc

MODULE-36

ATWILC1000-MR110PB

Microchip Technology, Inc

MODULE

ATWINC1500-MR210UB1954

Microchip Technology, Inc

MODULE-28

ATWINC3400-MR210CA122

Microchip Technology, Inc

MODULE

ATWILC1000-MR110UB

Microchip Technology, Inc

MODULE

ATSAMW25H18-MR510PB

Microchip Technology, Inc

51LMODULE

ATWILC3000-MR110UA

Microchip Technology, Inc

MODULE

ATZB-A24-U0R

Microchip Technology, Inc

MODULE

ATWINC1500-MR210PB1952

Microchip Technology, Inc

MODULE

ATZB-X0-256-3-0-C

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MODULE