


WLAN+BT Chip 2412MHz to 2484MHz Automotive 36-Pin 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

ATWILC3000 is a single chip IEEE 802.11 b/g/n RF/Baseband/MAC link controller and Bluetooth 5. The ATWILC1000 connects to Microchip AVR/SMART MCUs, SMART MPUs, and other processors with minimal resource requirements with simple SPI/SDIO-to-Wi-Fi and UART-to-Bluetooth interfaces.

The ATWILC3000 supports single stream 1x1 802.11n mode providing tested throughput of up to 46 Mbps UDP & 28 Mbps TCP/IP. The ATWILC3000 features fully integrated Power Amplifier, LNA, Switch and Power Management. Implemented in low-power CMOS technology, the ATWILC3000 offers very low power consumption while simultaneously providing high performance and minimal bill of materials.

The ATWILC3000 utilizes highly optimized 802.11-Bluetooth coexistence protocols. The only external clock sources needed for the ATWILC3000 is a high-speed crystal or oscillator and a 32.768 kHz clock for sleep operation.

The ATWILC3000 can be used in Linux, RTOS or Baremetal Environments.

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.

Click [HERE](#) for the WILC Linux driver on GitHub

For product comparison, please consider: ATWILC1000, ATWINC1500, ATWINC3400

Key Features

IEEE 802.11 b/g/n 20MHz (1x1) Wi-Fi plus Bluetooth 5 Low Energy Module

Single spatial stream in 2.4GHz ISM band

Integrated PA and T/R Switch

Superior Sensitivity and Range via advanced PHY signal processing

Wi-Fi Direct and Soft-AP support

Supports Personal & Enterprise IEEE 802.11 WEP, WPA, WPA2 Security

On-chip memory management engine to reduce host load

SPI, SDIO, I2C, and UART host interfaces

HCI (Host Control Interface) via high speed UART

Operating temperature range of -40C to +85C

Bluetooth 5 Certified

Adaptive Frequency Hopping

Integrated PA and T/R Switch

Superior Sensitivity and Range

Module is Agency Certified in over 75 Countries

Works in Linux, RTOS, or Baremetal Environments

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

ATZB-A24-U0R

Microchip Technology, Inc

MODULE

ATWINC1500-MR210PB1952

Microchip Technology, Inc

MODULE

ATZB-X0-256-3-0-C

Microchip Technology, Inc

MODULE

ATWINC1500-MR210UB

Microchip Technology, Inc

MODULE