

Amphenol

Wi-Fi Module

W401C



Overview

W401C is based on Mediatek MT7921LEN. Compliant with IEEE 802.11 a/b/g/n/ac/ax. Supports 2x2 Multi-User Multiple-Input Multiple-Output(MU-MIMO), up to 1201 Mbps data rate. Compliant with Bluetooth v5.2.

Wi-Fi baseband of W401C supports Dual band dual concurrent (DBDC), Two Wi-Fi ports can work on two different bands (A-band and G-band) concurrently, Use WF0 for A-band, and WF1 for G-band for better performance.

Key Feature

- -10°C to +70°C
- IEEE 802.11a/b/g/n/ac/ax
- 2T2R 2.4GHz & 5GHz Dual band
- Compact size:22.0mm × 30.0 mm × 2.3 mm

Key Benefit

- Integrated platform capabilities
- Multi-types interface supported
- Popular authentication protocols

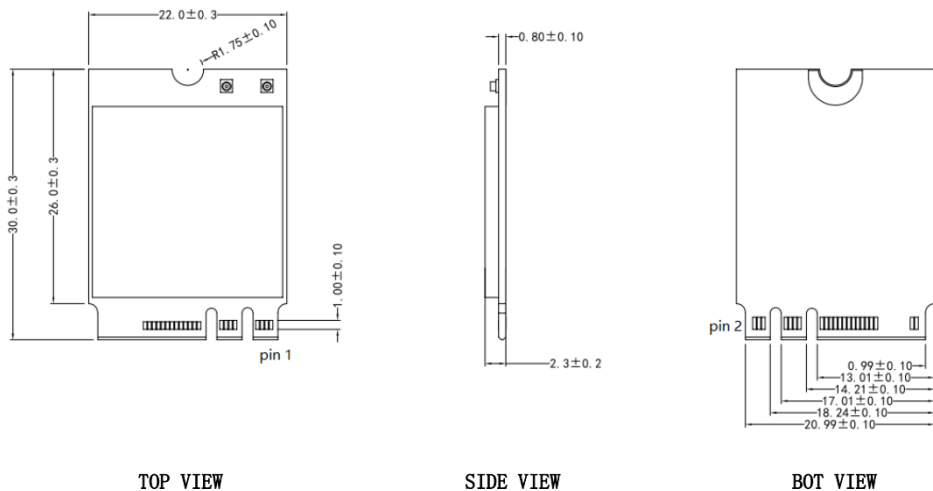
Application Interfaces

- ◆ IOT
- ◆ Set-top box
- ◆ AP router
- ◆ Building Automation
- ◆ Home Automation
- ◆ Smart lighting
- ◆ Industry Control

Features

Wi-Fi	
Standard	IEEE 802.11 a/b/ g/n/ac/ax
RF	
Frequency	2.402GHz to 2.483GHz 5.150GHz to 5.835GHz
Modulation	802.11b: CCK, DQPSK, DBPSK, DSS 802.11a: 64-QAM,16-QAM.QPSK, BPSK 802.11g: 64-QAM,16-QAM.QPSK, BPSK 802.11n: 64-QAM,16-QAM, QPSK, BPSK 802.11ac: 256QAM, 64-QAM,16-QAM, QPSK, BPSK 802.11ax: 1024QAM,256QAM, 64-QAM,16-QAM,QPSK,BPSK
Transmit Rate	802.11b: 1,2,5.5,11 Mbps 802.11a: 6,9,12,18,24,36,48,54 Mbps 802.11g: 6,9,12,18,24,36,48,54 Mbps 802.11n: MCS0~15, up to 300 Mbps 802.11ac: MCS0~9, Nss=2, BW=80MHz up to 866.7Mbps 802.11ax: MCS0~11, Nss=2, BW=40MHz up to 573.5 Mbps 802.11ax: MCS0~11, Nss=2, BW=80MHz up to 1201 Mbps
Electrical Character	
Interfaces	PCIe 2.1
Power supply	3.0V to 3.6V
Operation Temperature	-10 to +70°C

Dimension



unit:mm