

# Operation of Description

## 1.Description

The product is a 14.1 personal-PC based on I3-10110U chipset platform with WIN 10. The majority of the personal PC circuitry consists of eight device chipsets, and these chipsets are divided into different function sub-system or units. The central processor units include the AP, memory and EMMC storage ICs. The Support SDHC/SDXC is the system memory and package on package with the CPU at PCBA. The EMMC is the system internal storage for OS or other data.

The wireless unit includes WIFI/BT. The AX201 is dual chip device provides for the highest level of integration for a mobile or handheld wireless system, with integrated dual band (2.4GHz/5GHz) IEEE 802.11 a/b/g/n/ac and single-stream IEEE 802.11n MAC/baseband/radio and Bluetooth 4.0.

For WLAN and Bluetooth: CPU send uplink data over PCIE-bus to AX201 modulate ,it to generate RF signals over a frequency range of 2.4Ghz/5Ghz, and amplify RF signal is by inner amplifier, then send it to the WIFI/BT antenna through the SAW filter. In the other way, antenna receiver signals from the air, send them to the AX201, AX201 demodulate signals and transfer useful data back to the CPU. Use 32.768kHz clock.

## 2.Technical Specifications

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#### ① WIFI Module

- Operation frequency: 2412MHz~2472MHz、 4900MHz~5845MHz
- WLAN function: Supports 802.11b, 802.11g, 802.11n-20 802.11a 802.11ac
- Modulation Type: Supports CCK/DSSS/OFDM
- modulation type Transfer Rate (Mbps):1/2/5.5/11;6/9/12/18/24/36/48/54; 6.5/13/19.5/26/39/52/58.8/65
- Antenna Type:FPCB
- Gain: Main Antenna :2.4GWIFI dBi; 5G WIFI dBi
- Aux Antenna :2.4GWIFI dBi; 5G WIFI dBi

#### ② Bluetooth Features

- Compliant with Bluetooth4.0+EDR specification
- Operation frequency: 2402MHz~2480MHz
- Modulation Type: GFSK (1Mbps),  $\pi/4$ -DQPSK( 2Mbps), 8-DPSK(3Mbps)
- ZIF receiver with -90dBm sensitivity.
- Not support WiFi and BT transmit simultaneously.