

Description of functional blocks

XP400 /XP300 RX

1、WIFI module

WIFI module contains OZMO2000 with 24MHz external Crystal Oscillator. The OZMO2000 is fully integrated radio, baseband, and logic System-on-Chip (SoC) bringing Wi-Fi CERTIFIED™ Wi-Fi Direct technology to cost and power sensitive peripheral devices. It offers higher data rates, more extensive application interfaces, additional memory, hardware crypto accelerators, an integrated power amplifier, an audio PLL and a low-power RCO sleep timer. Its dual-band radio design allows seamless interoperability with Ozmo-enabled IEEE802.11a/b/g hosts.

2、BT module

BT module contains BCM20741 with 26MHz external Crystal Oscillator. The BCM20741 supports the Bluetooth 3.0 standard and Bluetooth 2.1 + Enhanced Data Rate (EDR) and Bluetooth 2.0, 1.2, and 1.1 backward compatibility, adding enhanced power control, simple, and secure pairing, and enhanced inquiry response as value-added features for Bluetooth headsets.

3、Antenna module

WIFI antenna uses two dual-band chip antennas, it is engineered specifically for high performance dual-band WLAN devices operating at both 2.4 GHz and 4.9-5.875 GHz and using 802.11 a/b/g/n systems. The RF signal from OZMO2000 passes by the balun, diplexer and switch to the antenna.

BT antenna uses printed inverted-F antenna. The RF signal from BCM20741 passes by the filter to the antenna.

4、Lithium Battery supply power for the whole product and the Power of OZMO2000 and Flash Memory is 1.9V.

5、There are 4 buttons on the right side, and 2 buttons and 2 volume knobs on the left side, the user can operate the headset or tune the volume by these parts. There is a 2.5mm audio jack on the left side, to which the user can connect the Xbox controller by a 2.5mm to 2.5mm talkback cable. There's a mini B type USB port on the right side, which is just used to charge the Lithium Battery.

6、All of the ground: Power, audio, RF, are connected together by copper pour. There's no separate block of ground copper for each of these circuits above.