



Theory of Operation/Technical Description – FCC ID: JIC-CS005, IC: 3880A-CS005

- RF circuit function:

HyperX CloudX Stinger Core Wireless Headset are based on the H012290 SoC

The Xbox One radio module is implemented using the Qualcomm/Atheros' (QCA) radio chip QCA4002 running proprietary protocol firmware. This radio is capable of dual-band operation on the 2.4GHz and 5GHz ISM bands.

The major part of this IC is a 2.4GHz and 5GHz double band IEEE 802.11a/g/n compliant transceiver.

- RF signal flow:

The H012290, incorporates the following: 2.4 GHz/5GHz RF transceiver, the XBOX wireless communication system's PHY & MAC hardware,

The Audio signal is encoded into a Data Stream to be the modulation input for the 2.4GHz/5GHz compliant transceiver.

- Description of Antenna system (Baluns, Multiplexers)

The RX/TX multiplexer is internally built. There is an external BALUN.
The device has one antennae, which are Chip type antenna.

- Show compliance with 15.203 antenna requirements:

Chip antenna, component and Chip antenna is not changeable by end user.

- Description of all modulation schemes used in the product:

OFDM

- Operating voltage:

VDC = 3.7V

- Operating frequency range:

WIFI G,N modes supported: 2412MHz ~ 2462MHz

WIFI A,N modes supported: 5180MHz ~ 5240MHz, 5745MHz ~ 5825MHz

Bandwidth = 20MHz

- Operating temperature:

MIN: 0°C

MAX: +40°C