

Nemko Job #: 13631 (NEX: 108063)

Xplore Technologies

FCC ID: Q2GIX104-152

IC: 4596A-IX104WBG

Model: IX104C4

To whom it may concern:

The purpose of this application is to obtain a single FCC ID and IC number for the IX104C4 Tablet PC that contains the following radios that have already been approved:

1. P094965AGN, Intel 4965AGN, 802.11a,g,n radio
2. RUJ-QBTM400, QCom QBTM400, Bluetooth radio
3. NCMOGX0302, Option GTMAX GX0302, EDGE / GPRS / GSM radio

Co-Location:

1. The QCom QBTM400 (Bluetooth radio) can transmit simultaneously with the Intel 4965AGN 802.11a,g,n radio OR the Option GTMAX GX0302 EDGE / GPRS / GSM radio.
2. The Intel 4965AGN, 802.11a,g,n radio CANNOT transmit simultaneously with the Option GTMAX GX0302 EDGE / GPRS / GSM radio.

Compliance with KDB 447498:

Compliance with KDB 447498 has been shown for the WAN and LAN radios via SAR reports iX104C4 NA_s.pdf, iX104C4 NA Part 1.pdf, and iX104C4 NA Part 2.pdf.

4) SAR test positions and requirements for specific host platforms and exposure conditions

- b) The following procedures are applicable to tablet computers with antennas installed along the tablet edges while operating in Tablet Mode When the output power of an antenna is $> 60/f(\text{GHz})$ mW, SAR is required for both bottom face and edge exposure conditions.
- i) Each antenna is evaluated for bottom face exposure with the base of the tablet in direct contact with a flat phantom. Convertible tablets must be tested in normal use conditions with the display folded on top of the keyboard section. The simultaneous transmission test requirements in item 3) b) ii) (1) may be applied to tablet computers in this operating mode.

Response: This was tested in the SAR report. All required channels were tested and labelled "Bottom" in the report. The highest conducted power channel was tested in the top position. If the SAR was 3 dB or more below the limit, the two remaining channels were excluded. Then, the highest SAR value in the top position was tested in the bottom position. If the values were at least 1 dB lower, then the remaining two channels were not tested. The simultaneous transmission is only between the BT and WWAN or the BT and WLAN. The BT module has a power level of less than $60/f(\text{GHz})$ mW. Therefore, it does not require any SAR evaluation per KDB 616217 under simultaneous transmission.

ii) Antennas installed along the edges of a tablet are each evaluated with the corresponding edge in direct contact with a flat phantom. The applicable edge configurations include: (A) one fixed display orientation in either portrait or landscape configuration; (B) two fixed display orientations with one in portrait and one in landscape configurations; and (C) multiple display orientations supporting both portrait and landscape configurations.

(1) For edge configuration (A): SAR is required for each antenna located within 5 cm of the tablet edge closest to the user for the applicable display orientation. For antenna(s) located ≥ 5 cm from this edge, the test reduction and exclusion procedures for laptop computers in KDB 616217 are applied

(2) For edge configurations (B) and (C): The procedures for edge configuration (a) are applied to each antenna, for the applicable display orientations where the corresponding edge is closest to the user. For each antenna, SAR is required only for the edge with the most conservative exposure condition.

Response: The edge position was not tested due to the fact that the antenna in the top position was 1.2 cm from the phantom and the edge position put the antenna greater than 9 cm distance. The WLAN antenna is the only antenna which gets within 20 cm of the body in the landscape mode. Therefore, it was an engineering judgment not to test the edge of the device since the SAR value for the WLAN antenna had a maximum of 0.234 W/kg at a distance of 1.2 cm and the value would be non-existent at 9 cm.

Miscellaneous:

Consumers are prevented from changing radios by providing a seal, that if broken, voids the warranty.

