



9/1/2005

FCC Equipment Authorization Branch
7435 Oakland Mills Rd.
Columbia, MD 21046

RE: New Application for Original Equipment Authorization of FCC ID: H9PMC9097 and Request for Temporary Confidentiality and Request for Confidentiality

Symbol Technologies, Inc. hereby submits this application for original equipment authorization of its model MC9097 portable computer with FCC ID: H9PMC9097. This product has two possible housings, with the only difference being the length of the keyboard and battery, along with the necessary wiring and flex circuits to attach to the keyboard and battery. The radio sections are identical in both configurations. Further, two of the three integrated radios are FCC approved modular radios. The device contains:

- An FCC approved Part 90 iDEN radio module. This radio is electrically identical to the device submitted and approved under FCC ID : AZ489FT7011.
- An FCC approved Part 15 RLAN 802.11 a/b/g module, This radio is electrically identical to the device submitted and approved under FCC ID: H9P2121160.
- A Bluetooth radio integrated onto the main board of the computer.

The Maximum SAR value measured for this product was 0.158 W/kg Body SAR @ 2.5 cm separation distance with the following simultaneous radio modes:

iDEN 815.47 MHz, 802.11a 5805 MHz, Bluetooth 2441 MHz

The following exhibits have been uploaded to support this application. Pursuant to CFR47 Section 0.459, Symbol Technologies would like to request that the attachments marked as ****CONFIDENTIAL**** remain confidential for this Application for Equipment Authorization. Additionally, Symbol requests temporary confidentiality on all attachments for a period of 45 days as per FCC Public Notice DA 04-1705 dated June 15, 2004:

1. **H9PMC9097 Cover Letter.pdf** : This cover letter
2. **H9PMC9097 Antenna Wireless LAN 5GHz.pdf** : This document contains the technical specifications for the 802.11 antennas for the 5 GHz bands.
3. **H9PMC9097 Antenna Wireless LAN 2_4GHz.pdf** : This document contains the technical specifications for the 802.11 antennas for the 2.4 GHz band.



4. **H9PMC9097 Bluetooth Antenna.pdf** : This document contains the technical specifications for the Bluetooth antenna in the 2.4 GHz band
5. **H9PMC9097 Block Diagram.pdf** : ****CONFIDENTIAL****. This document explains how the various radios interface to the computer.
6. **H9PMC9097 Parts List.pdf** : ****CONFIDENTIAL****. This document contains the MC9097 parts list.
7. **H9PMC9097 Schematics.pdf** : ****CONFIDENTIAL****. This document contains the schematics for the MC9097 mobile computer. The interface to the 802.11 radio is shown on page 10. The Bluetooth radio schematics are shown on page 12. The interface to the iDEN radio is shown on page 24.
8. **H9PMC9097 Operational Description.pdf** : ****CONFIDENTIAL****. This document contains an operational description of the radio functions of the MC9097 mobile computer.
9. **H9PMC9097 Label Drawings.pdf**
10. **H9PMC9097 External Photos.pdf**
11. **H9PMC9097 Internal Photos.pdf** :
12. **H9PMC9097 User Guide Bluetooth and 802_11.pdf** :
13. **H9PMC9097 User Guide iDEN radio.pdf** :

The following test report exhibits have been uploaded to support this application:

14. **H9PMC9097 RF Exposure Report.pdf** : This test report contains summary SAR data and data charts explaining the different SAR modes tested. The peak SAR value of 0.158 W/kg is shown on the summary page and is detailed on page 23 of this report.
15. **H9PMC9097 RFx Dipole validation data.pdf** : This test report shows the calibration data for the dipole antenna used in the SAR testing.
16. **H9PMC9097 RFx SAR Plots Brick model.pdf** : This test report shows the SAR plots referenced in the RF Exposure Report for the Brick (extended keyboard and battery) version of the MC9097. The plot of the peak SAR value of 0.158 W/kg is shown on page 1 of this report.
17. **H9PMC9097 RFx SAR Plots Short model.pdf** : This test report shows the SAR plots referenced in the RF Exposure Report for the Short (shortened keyboard and battery) version of the MC9097.
18. **H9PMC9097 RFx Z-Axis Brick model.pdf** : This test report shows the z-axis SAR test results for the Brick (extended keyboard and battery) version of the MC9097.



19. **H9PMC9097 RFx Z-Axis Short model.pdf** : This test report shows the z-axis SAR test results for the Short (shortened keyboard and battery) version of the MC9097.
20. **H9PMC9097 Supplemental 22_24 and WLAN.pdf** : This test report contains fundamental and spurious & harmonic data for the integration of the iDEN radio into the Symbol Model MC9097. Data for the 800 MHz and 900 MHz bands has been included.
21. **H9PMC9097 Supplemental 15E and UNII.pdf** : This test report contains spurious and harmonic data for the Wireless LAN 5150-5250 MHz and 5250-5350 MHz NII bands, as well as AC conducted emissions data for operation in this mode.
22. **H9PMC9097 Supplemental 15C WLAN.pdf** : This test report contains several collections of test data:
 - a. spurious and harmonic data for the Wireless LAN 2400-2483.5 MHz and 5725-5825 MHz bands.
 - b. AC line conducted emissions for the above modes.
 - c. 2.4 GHz band bandedge restricted band emissions data.
 - d. Spurious emissions data in the 30-1000 MHz range for the H9PMC9097.
23. **H9PMC9097 Supplemental BT Report.pdf** : This test report contains the Bluetooth radio test data. This includes spurious and harmonic data for 2402, 2441, and 2480 MHz, as well as bandedge restricted band data and line conducted test data.

Sincerely,

A handwritten signature in blue ink, appearing to read "D. C. Heald".

David C Heald
EMC Engineer
Worldwide Regulatory Compliance