

Re: Description of design changes in Ekahau A4+ WiFi Tag – FCC/IC certificate application

FCC ID: TA7- A400

IC: 6864 – A400

Model: A4+

To Whom It May Concern:

HW/SW/Mechanical changes from A4 to A4+ WiFi tag are as described below:

HW changes:

- One battery removed
- 3.5 mm standard DC power connector added for external power (2.5V to 5.5 V DC)
- Power regulator circuit added
- When external power is connected, product runs on external power
- When external power is removed/disconnected, product continues to run on one remaining internal backup battery
- 2.5 mm standard audio/stereo connector added for connecting two external buttons, which are connected to free general purpose I/O pins, same way as two internal buttons
- PCB has been modified to create space for above mentioned connectors and circuits
- No changes to RF path and radio operation of the product

Mechanical changes:

- A and B covers modified to accommodate 3.5 mm and 2.5 mm connectors on the side of the tag
- Internal structure /support ribs slightly modified to address removal of one battery
- Protection cap for connectors added

SW changes

- Functionality added to supervise external power – when external power is connected it is shown on the Ekahau Vision TM user interface screen.
- When external power is removed, it is indicated on Ekahau Vision TM user interface screen, together with remaining backup battery capacity
- Reading of two externally connected buttons is added (same way as internal buttons)

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