Mark Briggs

To: mjansen@telefication.com
Cc: David Guidotti; Christine V. Krebill
Subject: RE: Comment email #1 for FCC assessment of product J83288_Flarm_ZKUGC625161

Dear Marcus,

Here are the response to the questions raised during the review of the Flarm application:

1 - antenna connector(s) seems not to be of FCC approved version (reverse polarity).
While the antenna connector may not be a unique connector the application documents clearly describes in the Operational Description (as referenced in the second paragraph of the Cover Letter) how the antenna is securely fastened to the rf connector such that removal of the antenna would render the device unusable:

> The antenna is connected to the “FLARM A” SMA socket. Thread locker glue will be applied to the screw thread of the “FLARM A” SMA socket and the mono-pole antenna will be screwed to this socket at the manufacturing site. On dispatch, the antenna is firmly connected to the device and cannot be removed or exchanged by the user.

2- what is the 3rd antenna connector (reverse polarity) being used for?
The rf connectors on the device are described on page 3 of the Operational Description.

- One SMA connector is used to permanently connect the transceiver antenna to the device as described in (1) above.
- The second SMA connector is to provide for receive diversity on the 902-928 FLARM FHSS device
- There is a MCX connector for an external GPS antenna
- There is a reverse SMA for connection to a an antenna that connects to a 1090MHz receiver to receive transponder signals from other aircraft.

3- user manual does not show any RF exposure warning (information) which should be present for a 15.247 device.
The rf exposure exhibit explains that the output power from the system (10mW) is below the 60/f threshold and so is suitable for use in portable and mobile rf exposure conditions. We did not consider that a warning statement would be required for this low power device.

Note that the 10mW output power is peak and does not include the 1% duty cycle for 10ms transmit time in a 1second period. The average power would be 0.1mW.

Please advise if additional information is required to complete your review. A copy of this email will be placed in the TCB folder as a cover letter if you need to include these responses with the submittal documents.

Regards,

Mark Briggs
Elliott-NTS