

16th August

Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Division
7345 Oakland Mills Road
Columbia, Maryland 21046

Subject: Class II permissive change request for FCC ID: O2J-255AS

To whom it may concern

AirSynergy Communications wish to increase the frequency range of operation for the AirSynergy Basestation operating in the 2.5-2.69 GHz band.

The changes are considered "Printed Circuit Board (PCB) or hardware changes" as detailed in section 2 of "KDB 178919 D01 Permissive Change Policy v05r03".

There are no changes to active hardware components and the differences are only passive devices.

The variants share the same baseband printed circuit assembly and the same Front-End printed circuit board.

Due to the narrow band of operation of the RF filtering, this requires three different product variants, but the differences between them are minimal:

AirSynergy variant	Frequency Band (MHz)	Baseband Printed Circuit Assembly	Front End Module PCB	Front End Module (FEM)	Cavity Filter
A25a	2500 - 2572	900-02-242	328-01-022	900-06-120	141-00-120
U38	2572 - 2620	900-02-242	328-01-022	900-06-099	141-00-121
A25c	2620 - 2690	900-02-242	328-01-022	900-06-122	141-00-122

Differences between FEM variants are discussed in separate document "FEM Block diagram".

The cavity filters have a pass band of approximately 100 MHz to optimise out of band performance so a different one is needed for each unit.

This application is to increase range of operating frequency over a continuous set of channels and some additional testing has been performed on the A25c variant to show that performance has not been affected. These results are reported in test report SC_TR_95_A.

Yours Sincerely

A handwritten signature in blue ink, appearing to read 'C Blackham', on a light-colored background.

Charlie Blackham
Director