

Date: May 31, 2016

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road Columbia,
MD 21046

Attn: OET Dept.

Product/ Model Number: **APIN0228**
Original FCC ID: **Q9DAPIN0228**

This project is a Class III Permissive Change submission for the purpose of updating to latest FCC regulation.

The major change field under this application is:

- Add DFS Bands UNII-2A (5250-5350MHz) and UNII-2C (5470-5725MHz) Under Part 15.407, including Weather band channels and 5720MHz;
- AOS 6.4.3.0 version operates after original FCC Grant has been issued.
The new AOS 6.4.4.0 version after this Class III Permissive Change is approved.

We declare there have no changes to the hardware, antennas or SDR security documentation. The safeguards in place in the original grant are still in place.

The list of all approved antennas:

Test Mode No.	Model	Type	Band(s)	Typical Gain
1	AP-ANT-1B	Omnidirectional	2.400 GHz - 2.500 GHz	3.8 dBi
			4.900 GHz - 5.875 GHz	5.8 dBi
2	AP-ANT-13B	Downtiltomni	2.400 GHz - 2.500 GHz	4.4dBi
			4.900 GHz - 5.900 GHz	3.3dBi
3	AP-ANT-16	Downtilt 3x3 MIMO omni	2.400 GHz - 2.500 GHz	3.9dBi
			4.900 GHz - 5.900 GHz	4.7dBi
4	AP-ANT-32	Omnidirectional	2.400-2.500 GHz	2.2 dBi
			5.150-5.925 GHz	4.0 dBi
5	AP-ANT-19	Dual band omni	2.400 GHz - 2.500 GHz	3.0 dBi
			5.150 GHz - 5.875 GHz	6.0 dBi
6	AP-ANT-20	Omnidirectional	2.400 GHz - 2.500 GHz	2.0 dBi
			4.900 GHz - 5.875 GHz	2.0 dBi
7	AP-ANT-35	Multipolarized	4.9 GHz - 6.0 GHz	5 dBi min

			2.4 GHz - 2.5 GHz	
8	AP-ANT-38	Multipolarized	4.9 GHz - 6.0 GHz	7.5 dBi min
			2.4 GHz - 2.5 GHz	
9	AP-ANT-93	3x3 MIMO directional	5.150 GHz - 5.875 GHz	14.0 dBi
10	ANT-3X3-D905	Multipolarized	2.4 GHz - 2.5 GHz	5 dBi min
			4.9 GHz - 6.0 GHz	
11	ANT-3X3-D608	Multipolarized	2.4 GHz - 2.5 GHz	7.5 dBi min
			4.9 GHz - 6.0 GHz	
12	ANT-3X3-2005	Omnidirectional	2.4 GHz - 2.5 GHz	5 dBi max
13	ANT-3X3-5005	Omnidirectional	4.9 GHz - 5.875 GHz	5 dBi max
14	ANT-3X3-5010	Omnidirectional	4.9 GHz - 5.875 GHz	10 dBi max
15	ANT-3X3-5712	Multipolarized	4.900 GHz - 6.000 GHz	11.5 dBi min
16	ANT-2X2-2314	Directional	2.400 GHz - 2.500 GHz	14.0 dBi
17	ANT-2X2-5314	Directional	4.900 GHz - 5.875 GHz	14.0 dBi
18	ANT-2X2-2714	2x2 MIMO directional	2.400 GHz - 2.483 GHz	14.0 dBi
19	AP-ANT-35A	Multipolarized	4.9 GHz - 6.0 GHz	5 dBi min
			2.4 GHz - 2.5 GHz	
20	AP-ANT-1W	Omnidirectional	2.400 GHz - 2.500 GHz	3.8 dBi
			4.900 GHz - 5.875 GHz	5.8 dBi
21	ANT-3X3-D100	multi polarized	4.9 GHz - 6.0 GHz	5 dBi min

Sincerely

Signature of applicant



Name: Robert Hastings

Date: May 31, 2016

Title: Manager Regulatory Compliance