FCC ID: KA2AP3520A1

Technical Description

This device is a D-Link AirPremier N Dual Band Exterior PoE Access Point with Dual-Band operates in both the 5GHz and 2.4GHz Bands with DSSS and OFDM technique. The transmitter rate could be 11Mbps for 11b; 54Mbps for 11a/g; 144.444Mbps for Draft 802.11n (20MHz); 300Mbps for Draft 802.11n (40MHz). The transmitter of the EUT is powered from host equipment.

NOTE:

1. The EUT was powered by following POE (Power Over Ethernet):

POE:	,
Brand:	Base-Unit
Model No.:	EBU-101G-T2 LF
Output power :	48V, 0.4A

2. The POE can be powered with following power adapter:

	· · ·
Brand:	Bothhand Enterprise Inc.
Model No.:	SA06-20S48-V
Input power :	100-240V, 0.6A, 50~60Hz AC input cable (unshielded, 1.8m, core with pin)
Output power :	DC 48V, 0.4A DC output cable (unshielded, 1.8m, with one core)

3. The EUT was pre-tested in chamber under the following modes:

Test Mode	Description
Mode A	Level-set (Put on tabletop)
Mode B	Tower-set (Wall-mounted)

From the above modes, worse case was found in **Mode B**. Therefore only the test data of the mode was recorded in this report.

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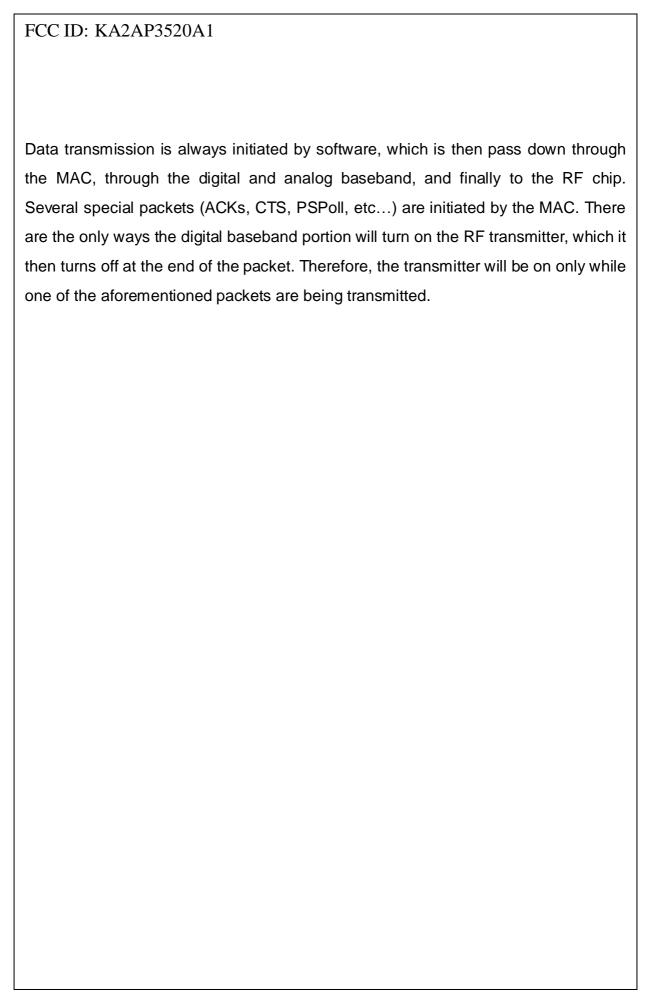
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4. There are two set of antennas provided to this EUT, please refer to the following table:

Antenna Set 1 (Internal antenna):									
Transmitter Circuit	Manufacture	Antenna Model	For 2.4GHz Gain (dBi)	_	r 5GHz in (dBi)	Antenna Type		Connector	
Chain(0)	SmartAnt Telecom Co., Ltd.	DWL08-220190	8		10		PCB MM		/ICX R/A plug
Chain (1)	SmartAnt Telecom Co., Ltd.	DWL08-220190	8		10	F	СВ	MMCX R/A plug	
Antenna Set 2 (External antenna):									
Transmitter Circuit	Manufacture	Antenna Model	Antenna G	ain	Only 2.4GH		Anter Typ		Connector
Chain(0)			Gain (dB	i)	8				
	SmartAnt Telecom	ANT24-0800	Cable Loss	Loss (dB) 3			DIPOLE		N-jack
	Co., Ltd.	(DWL07-050660)	Net Gain (d	dBi)	5				
			Cable length	n (m)	6				
Chain(1)			Gain (dB	Gain (dBi)					
	SmartAnt Telecom	ANT24-0800	Cable Loss (dB) Net Gain (dBi)		3	DIPO		. E	N-jack
	Co., Ltd.	(DWL07-050660)			5		DIFC	LC	IN-Jack
			Cable length	n (m)	6				
Note: While EUT connect with antenna set 2, the function of antenna set 1 were lose.									

- 5. The EUT incorporates a MIMO function with 802.11a, 802.11b, 802.11g, draft 802.11n. Physically, the EUT provides two completed transmit and two completed receivers.
- 6. The EUT is 2 * 2 spatial MIMO (2Tx & 2Rx) without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 Dipole antennas or 2 PCB antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas.
- 7. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
- 8. The EUT complies with draft 802.11n standards and backwards compatible with 802. 11a, 802.11b, 802.11g products.
- 9. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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