

PROFESSIONAL INSTALLATION ATTESTATION

Date: 2017-12-14

FCC ID: **2AHBN-AP61**

We, **Mist Systems, Inc.** hereby declare that requirements of KDB 353028 D01 Antennas Part 15 Transmitters v01 have been met and shown on the following questions. Further we declare that the info listed below are correct and represent the product in consideration under this filing.

- Professional installation must be justified.

Description: Device is outdoor Access Point and must need special trained professional in configuring and installing the product, more details please refer to user manual exhibit.

- Professional installation does not permit use of any antenna with the transmitter; the permitted types of antenna specified as below.

Description: Below listed of Antennas has been compliance FCC Rule Part 15 requirement, more details please refer to test reports.

For Model No.: AP61					
Radio 1- WLAN - 2.4GHz + 5GHz (Internal antenna)					
Antenna Set	Transmitter Circuit	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	3.87	2.4~2.4835	PIFA	i-pex(MHF)
		4.94	5.15~5.25		
		4.66	5.25~5.35		
		4.25	5.47~5.725		
		4.42	5.725~5.85		
	Chain (1)	3.91	2.4~2.4835	PIFA	i-pex(MHF)
		4.23	5.15~5.25		
		4.54	5.25~5.35		
		4.66	5.47~5.725		
	Chain (2)	3.93	2.4~2.4835	PIFA	i-pex(MHF)
		4.53	5.15~5.25		
		4.86	5.25~5.35		
		4.95	5.47~5.725		
	Chain (3)	3.81	2.4~2.4835	PIFA	i-pex(MHF)
		4.50	5.15~5.25		
		4.92	5.25~5.35		
4.71		5.47~5.725			
		4.90	5.725~5.85		
Radio 2- WLAN RX only - 2.4GHz + 5GHz (Scanning radio antenna)					
Antenna No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	
1	3.85	2.4~2.4835	PIFA	i-pex(MHF)	
	4.61	5.15~5.25			
	4.71	5.25~5.35			
	4.72	5.47~5.725			
	4.73	5.725~5.85			
Radio 3 - Bluetooth					
Antenna No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	
1	3.56	2.4~2.4835	Omni	i-pex(MHF)	
2	5.01	2.4~2.4835	Patch	i-pex(MHF)	

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For Model No.: AP61E							
Radio 1 - WLAN - 2.4GHz + 5GHz (External antenna)							
Antenna Set	Transmitter Circuit	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	PCTEL	FPMI2458-DP4NM	6	2.4~2.4835	Sector	N-Type
				5	5.15~5.25		
				5	5.25~5.35		
				5	5.47~5.725		
	Chain (1)	PCTEL	FPMI2458-DP4NM	6	2.4~2.4835	Sector	N-Type
				5	5.15~5.25		
				5	5.25~5.35		
				5	5.47~5.725		
	Chain (2)	PCTEL	FPMI2458-DP4NM	6	2.4~2.4835	Sector	N-Type
				5	5.15~5.25		
				5	5.25~5.35		
				5	5.47~5.725		
	Chain (3)	PCTEL	FPMI2458-DP4NM	6	2.4~2.4835	Sector	N-Type
				5	5.15~5.25		
				5	5.25~5.35		
				5	5.47~5.725		
2	Chain (0)	PCTEL	MPMI2458-4-NM	4	2.4~2.4835	Omnidirectional	N-Type
				4	5.15~5.25		
				4	5.25~5.35		
				4	5.47~5.725		
	Chain (1)	PCTEL	MPMI2458-4-NM	4	2.4~2.4835	Omnidirectional	N-Type
				4	5.15~5.25		
				4	5.25~5.35		
				4	5.47~5.725		
	Chain (2)	PCTEL	MPMI2458-4-NM	4	2.4~2.4835	Omnidirectional	N-Type
				4	5.15~5.25		
				4	5.25~5.35		
				4	5.47~5.725		
	Chain (3)	PCTEL	MPMI2458-4-NM	4	2.4~2.4835	Omnidirectional	N-Type
				4	5.15~5.25		
				4	5.25~5.35		
				4	5.47~5.725		

Radio 2 - WLAN RX only - 2.4GHz + 5GHz (Scanning radio antenna)					
Antenna No.	Transmitter Circuit	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	3.85	2.4~2.4835	PIFA	i-pex(MHF)
		4.61	5.15~5.25		
		4.71	5.25~5.35		
		4.72	5.47~5.725		
		4.73	5.725~5.85		
Radio 3 - Bluetooth					
Antenna No.	Transmitter Circuit	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain (0)	3.56	2.4~2.4835	Omni	i-pex(MHF)
2	Chain (1)	5.01	2.4~2.4835	Patch	i-pex(MHF)

Note:
 1. Max. gain was selected for Antenna Port Conducted Measurement test.
 2. For antennas of radio 2 & 3, Model No.: AP61 is as same as AP61E.

3. The applicant should address the following items when justifying professional installation.

(1) To qualify for professional installation, please explain why the hardware is not readily available to average consumer.

Description: Due to this product and will not be sold directly to the general public through retail store, therefore the hardware is not readily available to average consumer.

(2) Marketing — Applicant must ensure device cannot be sold via retail to the general public or by mail order.

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Description: This product and will not be sold directly to the general public through retail store. It will be sold to authorized dealers or installers only.

(3) Applicant must show that device intended use is not for consumers and general public.

Description: Device is for industrial/commercial use.

(4) Explain what is unique, sophisticated, complex, or specialized about the equipment that REQUIRES it to be installed by a professional installer?

Description: The device cannot be purchased by general end-users, only professional installers can help to install it.

4. Other professional installation requirements

(1) Installation must be controlled.

Description: The product will be distributed through controlled distribution channel which has special trained professional to install this product

(2) Installed by licensed professionals.

Description: Device sold to dealer who hires installers and need special trained professional in configuring and installing the product.

(3) Installation requires special training.

Description: The product need special programming, access to keypad, field strength measurements made, so must need special trained professional in configuring and installing the product.

If you should have any question(s) regarding this declaration, please don't hesitate to contact us. Thank you!



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