



PROFESSIONAL INSTALLATION ATTESTATION

Date: 2020-11-24

FCC ID: UXX-S5A103A

We, Cradlepoint, 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 Access Point can be matched with different antennas, different antennas have different settings 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 external antennas has been compliance FCC Rule Part 15 requirement, more details please refer to test reports.

For Model: S5A108A					
Antenna No.	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	Cable Length
Ant 1	2.47	2.4~2.4835 GHz	Dipole	R-SMA	170mm
	2.18	5.15~5.25 GHz			
	2.47	5.725~5.85 GHz			
Ant 2	2.47	2.4~2.4835 GHz	Dipole	R-SMA	170mm
	2.18	5.15~5.25 GHz			
	2.47	5.725~5.85 GHz			
Ant 3	2.47	2.4~2.4835 GHz	Dipole	R-SMA	170mm
	2.18	5.15~5.25 GHz			
	2.47	5.725~5.85 GHz			
Ant 4	2.47	2.4~2.4835 GHz	Dipole	R-SMA	170mm
	2.18	5.15~5.25 GHz			
	2.47	5.725~5.85 GHz			
LTE Ant 1 (GPS)	2.5	700~960 MHz	Dipole	N-Type	-
	2.2	1428~1600 MHz			
	4.3	1700~2700 MHz			
	4.6	3300~3700 MHz			
	6.1	5150~5925 MHz			
LTE Ant 2	2.5	700~960 MHz			
	2.2	1428~1600 MHz			
	4.3	1700~2700 MHz			
	4.6	3300~3700 MHz			
	6.1	5150~5925 MHz			
LTE Ant 3	2.5	700~960 MHz			
	2.2	1428~1600 MHz			
	4.3	1700~2700 MHz			
	4.6	3300~3700 MHz			
	6.1	5150~5925 MHz			
LTE Ant 4	2.5	700~960 MHz			
	2.2	1428~1600 MHz			
	4.3	1700~2700 MHz			
	4.6	3300~3700 MHz			
	6.1	5150~5925 MHz			



For Model: S5A103A

Antenna No.	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type	Cable Length
Ant 1	2.54	2.4~2.4835 GHz	PIFA	i-pex(MHF)	74 mm
	5.16	5.15~5.25 GHz			
	5.65	5.725~5.85 GHz			
Ant 2	2.38	2.4~2.4835 GHz	PIFA	i-pex(MHF)	91 mm
	5.2	5.15~5.25 GHz			
	5.18	5.725~5.85 GHz			
Ant 3	3.59	2.4~2.4835 GHz	PIFA	i-pex(MHF)	197 mm
	5.96	5.15~5.25 GHz			
	5.71	5.725~5.85 GHz			
Ant 4	1.88	2.4~2.4835 GHz	PIFA	i-pex(MHF)	288 mm
	5.09	5.15~5.25 GHz			
	5.75	5.725~5.85 GHz			
LTE Ant 1 (GPS)	1.42	619~960 MHz	Dipole	SMA	-
	0.88	1445~1515 MHz			
	2.69	1710~2700 MHz			
	4.13	3400~3700 MHz			
	4.29	5150~5925 MHz			
LTE Ant 2	1.42	619~960 MHz			
	0.88	1445~1515 MHz			
	2.69	1710~2700 MHz			
	4.13	3400~3700 MHz			
	4.29	5150~5925 MHz			
LTE Ant 3	1.42	619~960 MHz			
	0.88	1445~1515 MHz			
	2.69	1710~2700 MHz			
	4.13	3400~3700 MHz			
	4.29	5150~5925 MHz			
LTE Ant 4	1.42	619~960 MHz			
	0.88	1445~1515 MHz			
	2.69	1710~2700 MHz			
	4.13	3400~3700 MHz			
	4.29	5150~5925 MHz			

Note: Max. gain was selected for the final test, except for the radiated emissions test.

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 antenna 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.

Description: This product and antenna 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: External antenna have matched with different antennas, different antennas have different settings needs to be in installed, and so special person is required in configuring and installing the product.
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, specify environment and antenna settings 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!

A handwritten signature in black ink, appearing to read "Pankaj Malhotra", written over a horizontal line.

Pankaj Malhotra
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