



Universal Scientific Industrial (Shanghai) Co., Ltd.
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PROFESSIONAL INSTALLATION

ATTESTATION

Date: 2018-05-22

FCC ID: **S9GM510**

We, **Universal Scientific Industrial (Shanghai) Co., Ltd.** 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 indoor 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.

| WLAN | | | | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------|--|-----------------|--|
| Antenna NO. | Transmitter Circuit | Antenna Net Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type | Cable Length (mm) | Cable Loss (dB) | Excluding cable loss Antenna Gain(dBi) |
| 1 | 5GHz_chain_0 | 1 | 2.4~2.4835 | PIFA | i-pex (MHF) | 120 | 0 | 1 |
| | 2.4GHz_chain_1 | 3 | 5.15~5.85 | | | | 0 | 3 |
| 2 | 5GHz_chain_1 | 1.2 | 2.4~2.4835 | PIFA | i-pex (MHF) | 70 | 0 | 1.2 |
| | 2.4GHz_chain_0 | 3 | 5.15~5.85 | | | | 0 | 3 |
| GPS | | | | | | | | |
| Antenna Net Gain(dBi) | Frequency range (MHz) | Antenna Type | Connector Type | Cable Length (mm) | Cable Loss (dB) | Excluding cable loss Antenna Gain(dBi) | | |
| 1.66 | 1575.42 | Dipole | i-pex (MHF) | 80 | 0.34 | 2 | | |



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| WWAN | | | | | | |
|-------------|--------------|-----------|----------------------|---------------|-------------|------------|
| Antenna NO. | Antenna Type | Brand | Model | Band | Freq. Range | Gain (dBi) |
| 1 (Main) | Dipole | Aristotle | RFA-LTE-C55-B70-C255 | WCDMA II (B2) | 1850~1910 | 1.66 |
| | | | | WCDMA IV (B4) | 1710~1755 | 1.66 |
| | | | | WCDMA V (B5) | 824~849 | 1.66 |
| | | | | LTE Band (2) | 1850~1910 | 1.66 |
| | | | | LTE Band (4) | 1710~1755 | 1.66 |
| | | | | LTE Band (12) | 698~716 | 1.53 |
| 2 (Aux) | Dipole | Aristotle | RFA-LTE-C55-B70-C255 | WCDMA II (B2) | 1850~1910 | 1.5 |
| | | | | WCDMA IV (B4) | 1710~1755 | 1.5 |
| | | | | WCDMA V (B5) | 824~849 | 1.5 |
| | | | | LTE Band (2) | 1850~1910 | 1.5 |
| | | | | LTE Band (4) | 1710~1755 | 1.5 |
| | | | | LTE Band (12) | 698~716 | 1.37 |

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.

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: This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.



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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: This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

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

Sincerely yours,

A handwritten signature in black ink that reads 'Allen Lu'. The signature is written in a cursive style and is positioned above a horizontal dashed line.

Allen Lu
EMC Engineer
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