



Angel Aerial Systems, Inc.
10385 Spartan Dr, Cincinnati, OH 45215
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FEDERAL COMMUNICATIONS COMMISSION

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Subject: Request for Class II Permissive Change.

Date: 03/11/2026

Dear Regulatory Authority,

This is to request a Class II Permissive Change for the above-referenced device.

The original FCC ID (2BUWQ18PMDDL2450) was granted on March 10th, 2026 and authorizes a 2x2 MIMO 2.4 GHz OEM Digital Data Link module under Part 15.247 for mobile configurations with specified antenna types and installation conditions.

Description of Changes:

The module is being integrated into a new host product, the Angel Aerial Systems Ground Controller (Model V1.0). The following changes have been made relative to the original grant conditions:

1. Portable Configuration – Reduced Separation Distance

The original grant required installation providing a minimum separation distance of 27 cm from all people.

The module is now integrated into a handheld portable device with a minimum separation distance of 10.08 cm from the user during normal operation.

A SAR Exemption evaluation has been performed in accordance with FCC 47 CFR §2.1093. The evaluation demonstrates that the device is exempt from SAR requirements at the declared separation distance.

The SAR Exemption Report is attached.

RF exposure evaluation for the approved Ground Controller application was performed using an average duty cycle of 25% representative of the normal operating conditions of this application.

2. Co-location with Additional Transmitters

The module is co-located within the same host device with the following certified transmitters:

- FCC ID: 2BUWQHP900 (900 MHz FHSS)
- FCC ID: 2BUWQ-MT7922A12L (5 GHz WiFi)

Simultaneous transmission of multiple radios may occur during normal operation.

Evaluation under FCC multi-transmitter product procedures has been performed. RF exposure assessment confirms compliance under simultaneous transmission conditions.

Radiated spurious emissions testing of the complete host system has also been performed and demonstrates continued compliance with FCC Part 15 requirements.

The applicable EMC and RF exposure reports are attached.



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3. Antenna Change

The module is used with different antennas than those originally listed in the grant.

Antenna 1:

APA-M25 patch directional antenna

Gain: 8 dBi (2.4 GHz band)

Antenna 2:

W4P42X8W04-U100D3B0A

Gain: 1.7 dBi (2.4 GHz band)

The antenna gains and installation configuration have been evaluated. Radiated emissions and RF exposure compliance have been verified with this antenna configuration.

No increase in maximum conducted output power has been made.

4. Firmware-Based Frequency Restriction

Firmware restrictions have been implemented to limit operation to compliant frequency channels based on prior test results.

The frequency limitation is implemented at the firmware level and is not user configurable.

There are no changes to modulation type, bandwidth mode, or maximum conducted output power beyond the originally authorized range.

Justification

We confirm that:

- The transmitter's fundamental operating characteristics (frequency band, modulation type, and maximum conducted output power) remain unchanged.
- No new modulation types have been introduced.
- No increase in maximum output power has been made.
- The changes are limited to integration conditions, antenna configuration, portable use classification, and firmware restrictions.

The device continues to comply with:

- FCC Part 15.247
- FCC 2.1093 (SAR exemption criteria)
- FCC multi-transmitter product procedures

Sincerely,

Signature: *William Hasting*

Printed Name: William Hasting

Title: CEO