



COMMA.AI, INC.  
3900 HARNEY ST  
SAN DIEGO, CA 92110

(858)779-4335  
WWW.COMMA.AI  
HI@COMMA.AI



## MODULAR APPROVAL

Date: 03/22/2024

FCC ID: 2BFC6-LIGHTNINGH

IC: 32232-LIGHTNINGH

To whom it may concern,

We (comma.ai, Inc.) would like to apply for modular certification of the comma.ai LightningHard SOM, with the FCC and IC IDs listed above. The radio meets the requirements for modular approval detailed in FCC 15.212. Compliance to each requirement is described below:

**1. The modular transmitter must have its own RF shielding**

This is fulfilled. The EUT has shielding which covers the RF portions of the device, which is installed during production. See internal / external photos for reference.

**2. The modular transmitter must have buffered modulation / data inputs**

This is fulfilled. The EUT has buffered data inputs to ensure compliance with Part 15 requirements. For reference, please see the Schematics exhibit.

**3. The modular transmitter must have its own power supply regulation**

This is fulfilled. Please see the Schematics exhibit for reference.

**4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)**

This is fulfilled. The antenna interface is unique, and the maximum antenna gain is described in the User Manual.

**5. The modular transmitter must be tested in a stand-alone configuration**

This is fulfilled, the module was tested in a stand-alone configuration on a test platform.

**6. The modular transmitter must be labeled with its own FCC ID number**

This is fulfilled. Please see the Label Information exhibit for more details.

**7. The modular transmitter must comply with any specific rule or operating requirement applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements**

This requirement is fulfilled. The User Manual contains an Integration Guide to explain these requirements clearly to the integrators.

**8. The modular transmitter must comply with any applicable RF exposure requirements**

The module has been tested and is in compliance with the exposure requirements in its intended configuration and integration with the host.

Sincerely,  
Robbe Derks  
comma.ai, Inc.

A handwritten signature in black ink, appearing to read "Robbe Derks", with a stylized flourish at the end.