Declaration of Conformity

Declaration Number: 20231109-0001

The manufacturer: Echo MAV, LLC
6310 Genoa Ave, Suite A, Lubbock TX 79424, United States

Declare that the product: EchoPilot AI

The EchoPilot AI is a control system designed for robotics applications. It features a microcontroller, NVidia SOM interface, sensors and peripheral connectivity commonly used in robotics applications.

Features include:

- FMUv5 Pixhawk Architecture
- Onboard IMUs, gyros, and barometric pressure sensors
- Nvidia Jetson SOM Interface
- USB Hub
- Ethernet Switch
- M.2 slot for NVMe SSD
- Power supply - dual 5V @ 6A each maximum

The EchoPilot AI shall be used as part of a system designed and assembled by the end user. The input voltage range is 7-56 VDC, typical power consumption is 20W. Onboard regulated voltage levels do not exceed 5.4 VDC.

The EchoPilot AI contains an ESP32 C3 Mini RF Module which may be optionally activated by the end user.

Applicable FCC Rules: FCC Part 15 Subpart C 15.247 & 15.209
Contains FCCID:2AC7Z-ESPC3MINII

The EchoPilot AI is only FCC authorized for FCC Part 15 Subpart C 15.247 & 15.209 and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuity), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Is conformal to the following directives and standards:

2014/30/EU - Electromagnetic compatibility (EMC)

Harmonized Standards

EN 55014-1 :2006 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission CISPR 14-1:2005

EN 55014-112:09 PM:2006/A2:2001 (CISPR 14-1:2005/A2:2001) Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission CISPR 14-1:2005

EN 55014-1:2006/A1:2009 (CISPR 14-1:2005/A1:2008) Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission CISPR 14-1:2005

EN 61000-3-2:2014 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment and input current 16 A per phase) IEC 61000-3:2:2014

EN 61000-3-3:2013 Electromagnetic compatibility (EMC) 0- Part 3 -2 : Limits - Limit of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16A per phase and not subject to conditional connection IEC 61000-3-3:2013

2014/35/EU - Low voltage (LVD)

Harmonized Standards

EN 60335-1:2012 Household and similar electrical appliances - Safety - Part l: General Requirements lEC 60335-1:2010 (Modified)

EN 60335•1:2012/AC:2014 Household and similar electrical appliances - Safety - Part 1: General Requirements lEC 60335-1:2010 (Modified)

EN 60335-1:2012/a11:2014 Household and similar electrical appliances - Safety - Part 1: General Requirements lEC 60335-1:2010 (Modified)

EN 62233:2008 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure IEC 62233:2005 (Modified)

EN 62233:2008/AC:2008 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure lEC 62233:2005 (Modified)

2011/65/EU - Restriction of the use of certain hazardous substances (RoHS)

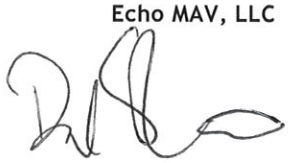
Harmonized Standards

EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

This declaration of conformity is issued under the exclusive responsibility of the manufacturer.

CE

Knoxville, TN 2023-11-09
Echo MAV, LLC



Brad Stinson
CTO