

Vision 312

Technical Report according to 47 CFR § 2.1033 - Application for certification (b) - Declaration of Model Differences Letter

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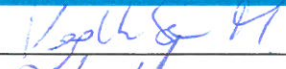
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Approval

Project Name
Technical Report according to 47 CFR § 2.1033 - Application for certification (b) -
Declaration of Model Differences Letter V1.0.0 of 2020-03-11
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History of Changes

Version	Date	Person	Modification
0.0.1	2019	MVO	Creation of TTControl template
1.0.0	2020-03-11	MVO	Initial Version

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1 Overview

The purpose of this document is to provide the required data and information as required per FCC Title 47, Chapter I, Subchapter A, Part 2, Subpart J, §2.1033 – “Application for Certification” – Declaration of Model Differences Letter for the product “Vision 312”, that shall be FCC certified.

2 Objective

The device that shall be certified is identified as follows:

Device Description: Vision 312

Hardware Identification: H-156-P-02-003

Serial Number: V3xxxxxxxxxxxx

FCC-ID: 2AUIVTTCVISION312

Date of Manufactory: xx/20xx

Device that the certification is applied for:



Figure 1: Product Vision 312

3 47 CFR § 2.1033 (b)

3.1 Declaration of Model Differences

There are two different variants of the product. The following two tables show the most different components and interfaces of the Vision 312 product.

3.1.1 System Components

	Vision 312	Vision 312Plus
CPU	i.MX 6Solo Processor 800 MHz - ARM Cortex-A9 (single core)	i.MX 6QuadPlus Processor 1 GHz - ARM Cortex-A9 (quad core)
DDR3 RAM	512 MB	2 GB
eMMC Flash	4 GB	8 GB
Display	12.1", 1280x800, 500 cd/m2 luminance, 1000:1 contrast ratio	12.1", 1280x800, 1000 cd/m2 luminance, 1000:1 contrast ratio
Touchscreen	Yes	Yes
Bonding	Fully bonded	Fully bonded
Speaker	Integrated	Integrated
Real-time clock	1	1
Non-volatile memory	32 kByte EEPROM	32 kByte EEPROM

Table 1: System Component Difference

3.1.2 Interfaces

	Vision 312	Vision 312Plus
CAN	2	4 (1 ISOBUS compliant)
Analog video input	2 (PAL / NTSC)	4 (PAL / NTSC)
USB	1 (OTG)	2 (1 OTG / 1 HOST)
Ethernet	1 (100BASE-T1)	1 (100BASE-TX)
RS-232	1	1
Terminal 15	1	1
Wake-up	1	1
Temperature sensor	2	2
Status LED	1 (RGB)	1 (RGB)
Ambient light sensor	1	1

Table 2: Interface Difference

Abbreviations and Acronyms

Abbr. / Term	Meaning
100BASE-T1	BroadR-Reach
100BASE-TX	Ethernet
eMMC	Embedded MultiMediaCard
CAN	Controller Area Network
CPU	Central Processing Unit
DDR3	Double Data Rate 3
EEPROM	Electrically Erasable Programmable Read-Only Memory
FCC	Federal Communications Commission
NTSC	National Television System Committee
OTG	On-The-Go
PAL	Phase Alternating Line
USB	Universal Serial Bus

Glossary

Abbr. / Term	Meaning
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References

- [1] FCC Title 47 – Part 2 J CFR § 2.1033, Application for certification
- [2] FCC Title 47 - Part 15 B, 47 CFR Ch. I (10–1–10 Edition), Unintentional Radiators