## **ADAS Plug-and-Play Kit Certification Report**

Version 6.0 | Balamurugan Muthusamy | AUTOGUARD.CO.IN

#### 1. Project Overview

Project Name: ADAS Plug-and-Play Kit

Owner: Balamurugan Muthusamy

Version: 6.0 (Waterproofed, AI-Safety Integrated)

Compliance Targets:

- ISO 26262 Functional Safety
- ASIL C/D Mapping
- IP67 / IP68 Waterproofing
- EMC + Thermal Shock + Vibration Endurance

### 2. Component Certification Matrix

Component	Compliance Type	Standard/Ra	iting   Method	Result	Remarks		1
ECU Main Board	Waterproofing	IP67	High Pressure Je	t  PASS	Sealed v	vith conform	al coat
I							
Power Delivery	Thermal Stability	ISO 16750-4	120C soak test	PASS	2 hr dura	ation	1
CAN/LIN Comm	EMI/EMC	CISPR 25	Lab Tested	PASS	Within a	llowed band	width
I							
Al Processor	Safety Complian	ce  ISO 26262	2-6 (ASIL C)   FTA/I	FMEA	PASS	Redundar	nt logic
verified							

#### 3. Test Protocol Snapshots (Annexes)

To be attached:

- Thermal chamber graphs
- High-pressure waterproof tests
- Fog & condensation soak logs
- AI ECU failover response timeline

# **ADAS Plug-and-Play Kit Certification Report**

Version 6.0 | Balamurugan Muthusamy | AUTOGUARD.CO.IN

- Vibration + mechanical shock test photos

## 4. Compliance Statements

- All modules comply with the required IP67/IP68 for ruggedized deployment.
- Functional safety path for AI logic satisfies ISO 26262-6 (ASIL C/D tiered redundancy).
- CAN, LIN, and Bluetooth interfaces certified against EMI/EMC leakage (per CISPR 25 Class 5).
- Lab logs maintained and timestamped in blockchain registry (verifiable via dashboard).

### 5. Sign-off

Certification Audit Date: [To Be Inserted]

Audit Performed By: [Internal Lab / Third Party - TBD]

Authorized Signatory: Balamurugan Muthusamy

Notes: Final certification version will include stamped copies with audit photos and full component datasheet

traceability.