

ADAS Kit

A Testing & Development Platform



Lincoln MKZ



Ford Fusion/Mondeo
(shift-by-wire limited)

A complete hardware and software solution that allows seamless control of throttle, brake, steering, and shifting — to assist testing sensors for autonomous vehicle applications.

- Vehicle Requirements

- Lincoln MKZ, 2013 or newer
- Ford Fusion/Mondeo, 2017 or newer
- Hybrid model
(required for electronic brakes)
- Active Park Assist feature
(required for steering control)

- Interface

- CAN
- dSPACE
- RTMaps
- ROS

- Control

- Brake and throttle (50 Hz)
- Steering wheel angle (50 Hz)
- Gear (PRNDL) (20 Hz)
- Turn signals (20 Hz)

- Production Sensors

- 3-Axis acceleration (100 Hz)
- Roll and yaw rate (100 Hz)
- Individual wheel speeds (100 Hz)
- Production GPS (1 Hz)

- Power

- 12 programmable relay channels
- 600W true sine wave inverter



Contact us for more information!

info@dataspeedinc.com

248-879-0528

Accelerate your ADAS development by retrofitting a Lincoln MKZ with the electronics needed for rapid innovation! Dataspeed installs the ADAS Kit drive-by-wire hardware, Power Distribution System to get you up and running quickly.



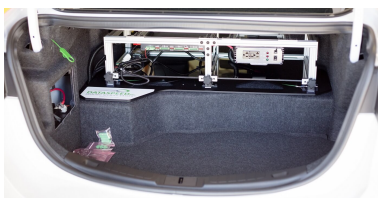
Power Distribution Panel



Touch Screen Interface (power)



USB joystick



Trunk instrumentation plate

Provided Hardware and Software:

- Throttle and brake by-wire controller module
- Steering and shifting by-wire controller module
- Power Distribution System (PDS)
- Touch Screen Interface to control PDS
- Switch Panel Interface to control PDS
- 600 Watt true sine wave inverter for AC loads
- Trunk-mounted instrumentation plate
- Wire harnesses for all hardware modules
- USB joystick
- USB/CAN converter for use with ROS
- ROS nodes to control system from a computer
- dSPACE blockset to control system using a MicroAutoBox
- Software and hardware updates for 1 year with maintenance agreement



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