

# Vehicle Overview

The  $\mu$ Cars are networked and autonomous model-scale vehicles 1:18 model-scale vehicle based on a Ford Focus with Ackermann steering geometry developed for experiments developed for experiments in networked and autonomous driving in research and education. The vehicle is open source, moderately costed and highly flexible, which allows for many applications. It obtains its pose (position and orientation) via WLAN from the IPS and is equipped with an inertial measurement unit and an odometer.

Physical representation	Value
Vehicle length	220 mm
Vehicle width	107 mm
Vehicle height	70 mm
Wheelbase	150 mm
Min. radius of curvature for steering	0.3 m
Max. speed total	3.7 m/s
Weight	500 g
Weight distribution front:back	0.48:0.52
Weight distribution left:right	0.56:0.44