

Microchip Technology have announced a 3D gesture recognition controller with what they say is the lowest system cost in the automotive industry, providing a durable single-chip solution for advanced automotive HMI designs. The MGC3140 is suited for a range of applications that limit driver distraction and add convenience to vehicles.



The capacitive technology-based air gesture controller makes it easy to navigate infotainment systems, sun shade operation, interior lighting and other applications. The technology also supports the opening of foot-activated rear lift gates and any other features a manufacturer wishes to incorporate with a simple gesture action. The MGC3140 is AEC Q100-qualified with an operating temperature range of -40 to 125 °C, and it meets the strict EMI and EMC requirements for automotive system designs. Each 3D gesture system consists of a sensor that can be constructed from any conductive material, as well as the Microchip gesture controller tuned for each individual application.

While existing solutions such as infrared and time-of-flight technologies can be costly and operate poorly in bright or direct sunlight, the MGC3140 offers reliable sensing in full sunlight and harsh environments.