

Renesas Electronics will start shipping samples of 70 kinds of automotive microcontrollers equipped with the V850 32-bit CPU core. All 70 varieties support the Autosar automotive software standard, and some of them comply with

ASIL D, the strictest level of the ISO 26262 functional safety standard. Also, they include microcontrollers compatible with the FlexRay next-generation automotive LAN standard.



All of the microcontrollers comply with version 3.0/3.1 of Autosar and come with an MPU (memory protection unit). They are made using 90nm process technology, and their frequencies range from 48MHz to 160MHz.

The D series, which features an enhanced graphics capability, comes in 11 models. Each of them has a meter function and a capability to display 800 × 480-pixel images as one package. And some feature a graphics engine that can deal with 3D images. Renesas Electronics decided to release the series because the number of vehicles using LCD displays is increasing.