

TI (Texas Instruments) say their ADAS and digital cockpit systems-on-chip are now installed in 150 million automobiles built by more than 35 OEMs.

These processors allow features to be added over time without requiring investment in additional hardware, the company says. Their architecture enables designers to extend image, signal, and digital processing capabilities with processors that have greater power efficiency than their competition, TI say.



The TDAX driver assistance SoC family provides scalable and open safety-enhancing solutions for ADAS features such as camera-based front, rear, surround-view, and night vision systems, as well as multi-range radar and sensor systems. The TDAX chips integrate purpose-built hardware accelerators such as image signal processors, embedded vision engines and digital signal processors. The processors come in three levels of performance ranging from entry to mid-level through mid-to premium-level, the company says.

The Jacinto family of processors is aimed for a range of automotive digital cockpit applications such as infotainment, informational ADAS, integrated digital cockpit, and a digital instrumentation cluster.

The scalability enables developers to develop performance parameters for their applications without software modifications or hardware changes, TI says. The processors are compatible with an array of scalable ARM Cortex-A15 cores designed for automotive applications.

The products include an entry-level infotainment processor for a variety of cost-sensitive in-vehicle automotive cockpit applications such as display audio and radio/audio. More advanced members provide features for applications such as digital cluster, telematics, and extended DSP and vision processing. Jacinto processors are currently used in the Ford SYNC3, Volkswagen MIB-II, SAIC-Alibaba "Internet Car" and BMW infotainment systems, TI say.