

IN-VEHICLE PLATFORM

For self-driving and vehicle safety applications

The CAN-connectible Via Mobile360 L900 platform by Via Technologies (Taiwan) supports up to nine automotive-grade cameras.



The platform can be used in autonomous vehicle, driver assistance, and operator safety applications (Source: Via Technologies)

The platform integrates the Nvidia Jetson TX2 module including the dual-core Denver 2 64-bit CPU (central processing unit), ARM Cortex -A57 MPCore, and a 256-core Pascal GPU (graphic processing unit). It delivers the compute, graphics, and AI (artificial intelligence) performance required for autonomous vehicle, driver assistance, and operator safety applications. Its support for nine automotive cameras enables integrating of the ADAS (advanced driver assistance systems), surround view, and DMS (driver monitoring system) features.

The system provides nine Fakra connectors, one HDMI port, two USB 3.0 ports, digital I/Os, COM ports, a SIM card slot, a micro-SD card slot, etc. This enables integration of cameras, displays, storage devices, sensors, and other peripherals. Gbit/s-Ethernet,

Wi-Fi, GPS (global positioning system), and Bluetooth 4.1 connectivity is available as well. The aluminum chassis, temperature range from -20 °C to +60 °C, and automotive power delivery (9 V_{DC} to 36 V_{DC}) enable the device's operation in demanding on-road and off-road conditions.

“The Via Mobile360 L900 enables developers of cutting-edge self-driving and vehicle safety applications to accelerate time-to-market for their innovations by providing a rock-solid system platform that can be used for both prototyping and mass production,” commented Richard Brown, Vice-President of International Marketing, Via Technologies. “With its advanced performance and support for nine automotive-grade cameras, the system has the scalability required for the most sophisticated mobility applications.”

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