

New Product Announcement

NXP's S32V234 Vision and Sensor Fusion Processor, Available from Mouser, Delivers 64-bit Processing for ADAS Applications

January 16, 2018 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, now offers the [S32V234](#) vision and sensor fusion processor from [NXP Semiconductors](#). The S32V234 is designed to support safe computation-intensive applications in vision and [sensor](#) fusion applications, including Advanced Driver Assistance Systems ([ADAS](#)), front camera systems, pedestrian and object recognition, surround view, and machine learning.

The [NXP S32V234](#) processor, available from Mouser Electronics, combines a robust, heterogeneous mix of CPU, GPU and image processors to deliver high-performance processing, vision acceleration, and security features. The processor integrates four Arm® Cortex®-A53 cores running at up to 1 GHz with a NEON coprocessor and an Arm Cortex-M4 CPU. The Cortex-M4 allows [automotive](#) operating systems to interface with external devices separate from the Cortex-A53 CPU.

The S32V234 processor offers 4 MBytes of on-chip system RAM and two 32-bit DRAM controllers with support for LPDDR2/DDR3/DDR3L, all with ECC memory. For image processing and vision capabilities, the device includes dual APEX-2 vision accelerators, a GC3000 3D GPU with surround-view support, MIPI CSI2 and parallel image sensor interfaces, and an embedded image signal processor. The S32V234 also offers an impressive array of connectivity features, including Gigabit Ethernet, Zipwire serial interface, dual CAN-FD interfaces, dual-channel FlexRay communication, and a PCI Express (PCIe) lane.

The S32V234 processor provides a wealth of security capabilities, including an on-the-fly AES decryption engine (OTFAD) and a Cryptographic Service Engine (CSE) that meets Secure Hardware Extension (SHE) protocol specifications. The device also features automotive safety compliance capabilities developed through NXP's SafeAssure™ program, which helps manufacturers achieve system compliance with ISO 26262 and IEC 61508 functional safety standards.

The S32V234 processor is supported the [SBC-S32V234 Vision Prototype Kit](#), which offers options for Linux (Yocto) and AutoSAR operating systems. The SBC-S32V234 kit is supported by a complete series of enablement tools and the S32 Design Studio integrated development environment (IDE).

To learn more about the S32V234 processor, visit www.mouser.com/nxp-s32v234-processor. For more information on the SBC-S32V234 Vision Prototype Kit, go to www.mouser.com/nxp-s32v234.

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About Mouser Electronics

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