

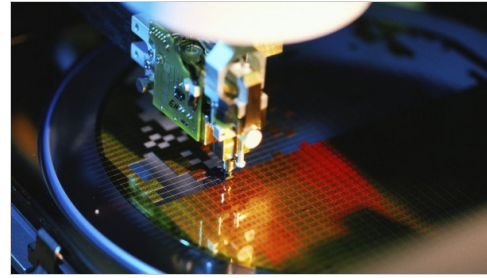
Japanese consortium proposes communication standard for automotive chips to UCle Consortium

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ASRA, formed in 2023, comprises 14 Japanese companies aiming to enhance automotive SoCs for mass production by 2030

A group of Japanese companies in the auto and semiconductor industries proposed a communication standard for automotive chips to an international body, aiming to advance technology essential for the growing electrification of vehicles, according to a report published by *Nikkei Asia* on June 2.



Source: Yellow Dog Productions/ The Image Bank/Getty Images

The group, called Advanced SoC Research for Automotive (ASRA), comprises 14 companies, including Toyota Motor, Honda Motor, auto parts supplier DENSO and chipmaker Renesas Electronics. The establishment of the standard would create an environment conducive to the development of automotive chips by the Japanese consortium.

Formed in 2023, ASRA focuses on developing automotive systems-on-a-chip (SoC) composed of chiplet components, with the goal of integrating these chips into Japanese mass production vehicles by 2030.

ASRA submitted its communication standard proposal to the Universal Chiplet Interconnect Express (UCIe) Consortium, which determines specifications for chiplet connections. The consortium's membership includes global automotive and chip companies. ASRA's proposal includes a recovery mechanism for communication errors and standards for safety performance. This proposal will be reviewed by the UCIe Consortium's automotive subcommittee.

Additionally, a European industry group is also engaged in chiplet technology development for automotive semiconductors.

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