

Press Release

Analog Devices Enhanced A²B Transceivers Deliver Unparalleled Flexibility for Emerging Applications

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Analog Devices, Inc. (ADI) announced today three enhanced Automotive Audio Bus (A²B®) transceivers that deliver unprecedented capability to tailor system-level performance to even the most stringent electromagnetic compatibility (EMC) requirements. The new AD242x series offers configurable transmit power levels, enabling the developer to match system performance to specific OEM EMC requirements – a key design criterion for all feature-rich automotive infotainment systems. The transceivers also allow expanded use cases for microphone connectivity and significantly reduce cabling complexity by distributing audio and control data plus clock and power over a single, unshielded twisted-pair wire. These features drastically lower system cost and are ideal for emerging multi-mic applications such as road noise cancellation, in-car communications, and autonomous driving. The new AD2426W, AD2427W and AD2428W devices are fully pin-compatible with existing series members, simplifying upgrade and speeding time to market.



- Visit the AD2426W, AD2427W and AD2428W product page: <http://www.analog.com/AD2428w>
- View a video on ADI's A²B portfolio: <http://www.analog.com/en/education/education-library/videos/3832751027001.html>
- Learn more about A²B technology and products: <http://www.analog.com/A2B>
- Connect with engineers and ADI product experts on EngineerZone, an online technical support community: <http://ez.analog.com/community>

"The A²B technology has proven to be a simple and cost-effective digital audio interconnect solution with the scalability that enables HARMAN to deliver a broad range of differentiated systems across multiple vehicle platforms," said Darby Hadley, Vice President Global Engineering, Car Audio SBU for HARMAN Lifestyle Audio Division. "The AD242x series offers a seamless and fast time-to-market upgrade path for our existing A²B car audio solutions."

More about the AD242x A²B Transceivers

ADI's A²B technology offers a fully deterministic, scalable and cost-effective means to address the rigorous performance requirements of next generation, latency-sensitive audio and voice applications. The most recent generation of pin-compatible A²B transceivers extends the core A²B feature set to include additional features that improve system-level flexibility – particularly in microphone array applications. The new AD242x devices are capable of routing data from up to 4 PDM microphones to the local I2S port for beam-forming or other local data processing. Further enhancements to the AD242x now allow for concurrently receiving up to 4 PDM mic inputs plus an additional I2S audio stream, addressing advanced mic connectivity use cases.

The AD2426W, AD2427W and AD2428W are fully compliant with all relevant automotive EMC, EMI and ESD requirements, are fully AEC-Q100 qualified, and operate over the extended automotive temperature range (-40°C to +105°C).

Support, Pricing and Availability

The AD242x devices are fully released to production and are available now in a 32-lead LFCSP (5mm x 5mm) package. These new devices, and all previously released A²B series members, are supported within ADI's SigmaStudio™ graphical development environment as well as an extensive ecosystem of third party development, prototyping, and evaluation solutions. Please contact your local ADI representative for pricing details.

About Analog Devices

Analog Devices (Nasdaq: ADI) is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>

A²B is a registered trademark and SigmaStudio is a trademark of Analog Devices, Inc.

Read and subscribe to Analog Dialogue, ADI's monthly technical journal, at: <http://www.analog.com/analog-dialogue>

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