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Analog Devices' RS-485 Transceivers First to Meet Stringent IEC Surge Standards

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) today announced the industry's first RS-485 transceivers fully certified for Level 4 EMC surge protection, thus eliminating the need for external transient-voltage surge-suppression devices. The galvanically isolated ADM2795E, using Analog Devices iCoupler® magnetic-isolation technology, and non-isolated ADM3095E save space and component count, speed time to market, and greatly minimize regulatory compliance issues. The integrated fault protection offered by the devices prevents potentially destructive voltages from damaging the communication interface, which can result from failures, surges, electrostatic discharge (ESD), and wiring errors.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20161102005007/en/>



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(Photo: Business Wire)

transient (EFT), and surge. Both devices are TIA/EIA RS-485/RS-422 compliant over their full supply range of 3 V to 5.5 V. In addition, the available evaluation boards, IBIS models, safety and regulatory compliance certificates, and videos and application notes available for the RS-485 transceivers greatly simplify the design-in process.

Critical specifications include:

- 1 5 kV rms isolated RS-485/RS-422 transceiver (ADM2795E)
- 1 Certified IEC 61000-4-x immunity across isolation barrier (ADM2795E)
- 1 High common-mode transient immunity: > 75 kV/μs (ADM2795E)

- 1 View product pages, download data sheets, order samples and evaluation boards: <http://www.analog.com/ADM2795E> or <http://www.analog.com/ADM3095E>

- 1 Learn more about Analog Devices' iCoupler technology: <http://www.analog.com/icoupler>

- 1 Connect with engineers and ADI product experts on EngineerZone®, an online technical support community: <https://ez.analog.com/community/interface-isolation>

Designers using the new RS-485 transceivers no longer need to individually design, test, verify, and formally obtain regulatory certification of their implementation, as these components have the required approval. Also, no external protective components are needed, which eliminates the need to match these discrete devices to the specific RS-485 transceivers users have selected. This also yields a simplified BOM and smaller board-space footprint for a higher density of RS-485 ports.

The ADM2795E and ADM3095E RS-485 transceivers meet IEC61000-4-5 Level 4 surge protection requirements, as well as industrial IEC immunity standards (radiated, conducted, and magnetic immunity) and EMC protection against ESD, electrical fast

- ┆ Certified Level 4 EMC Protection on RS-485 A, B Bus Pins
 - ┆ IEC61000-4-5 Surge Protection (± 4 kV)
 - ┆ IEC61000-4-4 EFT Protection (± 2 kV)
 - ┆ IEC61000-4-2 ESD protection
 - ┆ ± 8 kV Contact Discharge
 - ┆ ± 15 kV Air-Gap Discharge
 - ┆ IEC61000-4-6 conducted RF immunity (10 V/m rms)
- ┆ RS-485 A, B pins human body model HBM ESD $> \pm 30$ kV
- ┆ ± 42 V ac/dc peak Fault Protection on RS-485 bus pins
- ┆ Extended common-mode input range of -25 V to $+25$ V
- ┆ TIA/EIA RS-485/RS-422 compliant over full supply range and up to 125°C

Pricing and Availability

Product	Isolation	Samples Available	Full Production	Price Each per 1,000	Packaging
ADM2795E	Yes 5KVrms	Now	Now	\$5.95	16-Lead SOIC_W
ADM3095E	No	Now	February 2017	\$4.50	16-Lead SOIC_N
EVAL-ADM2795EEBZ	Yes	Now	Now	\$75.00	Evaluation Board
EVAL-ADM3095EEBZ	No	Now	February 2017	\$50.00	Evaluation Board

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect.

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

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