

**IN COMPLIANCE**Electromagnetic Compatibility  
Engineering Seminar

April 19-21, 2016 | Tempe, AZ

A Three-Day Intensive Course in  
Noise and Interference Control  
in Electronic Systems

NEWS

STANDARDS

TESTING

DESIGN

FUNDAMENTALS

RESOURCES

MAGAZINE

Search

SUBSCRIBE

LATEST NEWS

Eaton Helps OEMs Reduce Size of Next Generation Power Conversion, Energy Storage Technology with 48 Percent Smaller Compact High Speed Fuses

# IDT and CERN openlab Engineer Low-Latency RapidIO Platform to Speed and Improve Analytics at Large Hadron Collider and Data Center

POSTED BY IN COMPLIANCE NEWS ON JANUARY 7, 2016 IN COMPANY NEWS | LEAVE A RESPONSE

Integrated Device Technology, Inc. (IDT®) (NASDAQ:IDTI) announced that it has developed with the European Organization for



Nuclear Research (CERN) a low-latency platform to speed and improve the management of analytics at the organization's [Large Hadron Collider](#) (LHC) and data center. Developed at IDT's Open HPAC Lab and built upon the company's RapidIO® technology, the platform marks the first major milestone in the three-year collaboration IDT and CERN openlab announced in [March](#).

CERN openlab is a unique public-private partnership that accelerates the development of cutting-edge solutions for the worldwide LHC community and wider scientific research. Through CERN openlab, CERN collaborates with leading ICT companies and research institutes.

"The key to achieving better data analytics performance is having superior real-time interconnect with low, deterministic latency," said Alberto Di Meglio, head of CERN openlab. "With its optimized usage of interconnects and processor resources, this first deliverable in our collaboration with IDT will provide us with the baseline computing platform that will scale to enable better usage of our analytics data."

The collaboration was driven by the need to improve overall data acquisition and analysis for the massive volumes of data collected by the experiments on the LHC, the world's largest and most powerful particle accelerator. The LHC produces millions of collisions every second in each detector, generating approximately one petabyte of data per second. This data is vital

[Download Digital Edition](#)

IN THIS ISSUE:

**REALITY ENGINEERING**  
VCCI Celebrates 30 Years of EMC and Technology Success

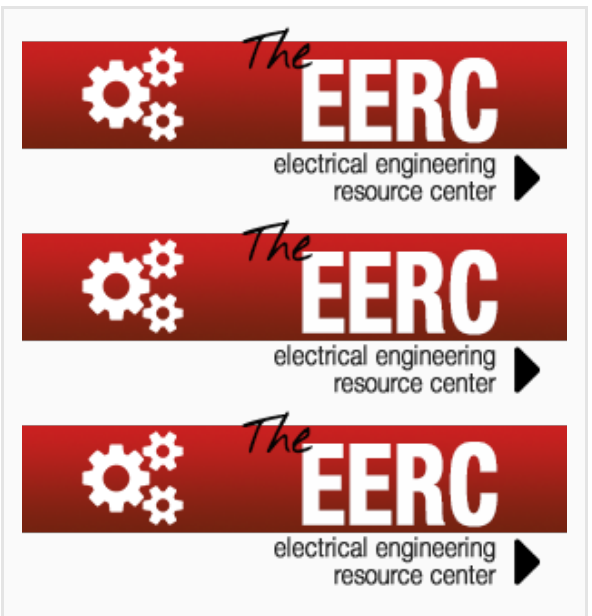
**TESTING**  
Comparing Test Methods for EMI Gaskets

**CAREER DEVELOPMENT**  
Making the Most of 2016: Professional Development Options for Compliance Engineers

**PRACTICAL TIPS**  
Reducing VHF Radiated EMI with an RC Snubber

**ON YOUR MARK**  
The Symbol Design Debate: Abstract Versus Representational

**THE VIEW FROM THE CHALKBOARD**  
View from the Chalkboard

[RECENT](#)

to CERN's quest to answer fundamental questions about the universe.

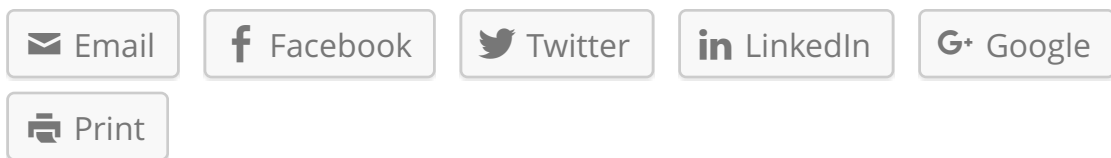
RapidIO technology provides a low-latency connection with deterministic transfer between clusters of computer processors, dramatically speeding the movement and processing of data. The new platform is based on x86 processing, a 200 GBaud RapidIO interconnect fabric, IDT's low-power RapidIO network interface card and CERN's root analytics framework. The initial development is based on a small number of nodes that can be scaled to a much larger number of nodes at rack scale. In subsequent phases of the three-year program, IDT and CERN engineers will build out larger scale computing systems with optimized performance and begin using the low latency rack scale processing power system to analyze data.

"This collaboration with CERN openlab is about implementing programmable real-time mission-critical data analytics," said Sailesh Chittipeddi, IDT's vice president of Global Operations and chief technology officer. "The development of the RapidIO-enabled analytics platform is the first big step toward maximizing the use of all the data generated by the important work conducted at CERN."

Widely used for 4G base stations, IDT's low-latency RapidIO products also enable real-time data analytics and data management for high-performance computing (HPC) and data centers.

For more information about the RapidIO small node analytics platform available in Q1 2016, contact IDT at [SRIO@idt.com](mailto:SRIO@idt.com). For larger scale out of the analytics platform, 1U 19-inch rack scale solutions will be available from Prodrive Technologies ([www.prodrive-technologies.com](http://www.prodrive-technologies.com)) in Q1 2016. More information related to open HPAC Lab analytics technology and projects can be found at <http://www.idt.com/landing/open-hpac-lab>.

#### Share this story:



POSTED IN COMPANY NEWS | TAGGED CERN, IDT, INTEGRATED DEVICE TECHNOLOGY, LARGE HADRON COLLIDER

## Related Posts



[Large Hadron Collider Accelerates Beam at Record Energy of 6.5 TeV→](#)



[Short Circuit Delays Large Hadron Collider→](#)



[Collider Exhibition Opens at the Science Museum→](#)



[You can't make this stuff up→](#)

### SAE Releases New Edition of J2735C: Standard for DSRC Message Set Dictionary

January 24, 2016

A new edition of SAE J2735 has been published by SAE International. J2735 applies to "Dedicated Short Range Communications (DSRC) Message Set Dictionary" and is issued by the Truck Bus Control And Communications Network Committee. Changes to the new edition includes: revising the content to reflect a uniform use of unaligned packed coding rules, a common message framework, the [...]

*In Compliance News*

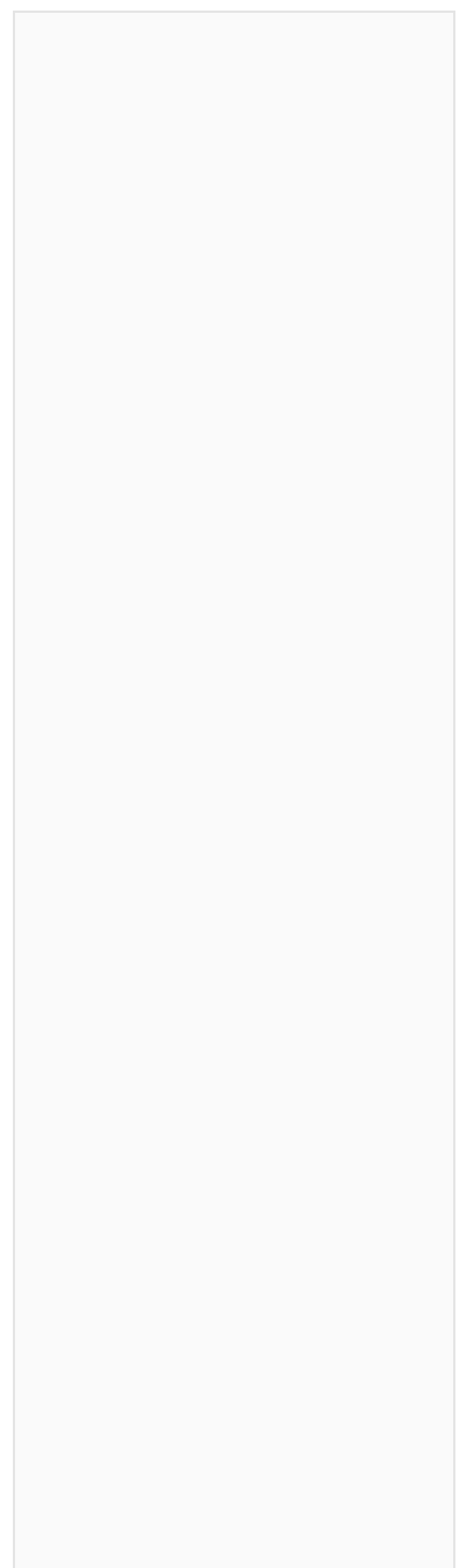
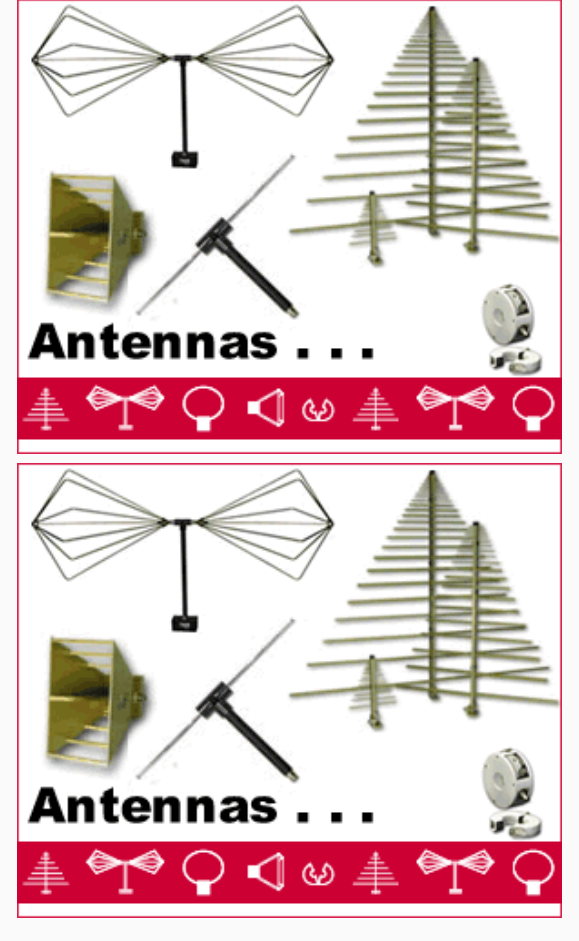
### Eaton Helps OEMs Reduce Size of Next Generation Power Conversion, Energy Storage Technology with 48 Percent Smaller Compact High Speed Fuses

January 24, 2016

Power management company Eaton introduces its Bussmann® series compact high speed fuses, which use up to 48 percent less enclosure space than standard high speed, round body fuses. Eaton's compact technology is designed to support the reduction in the overall size of next generation power conversion and energy storage equipment, including drives, uninterruptible power supplies [...]

*In Compliance News*

### Scientific Breakthrough Could Lead to Inexpensive



IN THE EERC RESOURCE CENTER



[Testing to IEC60601 Standards](#)

## Leave a Reply

### Fuel Cells

January 23, 2016

A team of engineers has made a scientific breakthrough that could help entice more people to buy fuel cell vehicles. Stricter federal standards and growing consumer demands for environmentally-friendly cars have made clean technology increasingly popular in the automotive world. However, most consumers are cautious about electric vehicles, which can be expensive to purchase and require planning ahead when [...]

*In Compliance News*

### Micro-Measurements Expands Offering of Full-Bridge Sensors Based on Advanced Sensors Technology

January 23, 2016

Micro-Measurements®, a Vishay Precision Group, Inc. (VPG) brand, today announced that it has expanded its product line of Transducer Class® full-bridge strain gages based on Advanced Sensors technology. Offering several advantages over bonding multiple, individual strain gages, the devices are now available with smaller, higher resistance patterns to serve a variety of bending and torque/shear [...]

*In Compliance News*

### NSI and MI Technologies Merge to Form a Strong Leadership Position in the Area of Microwave Measurements

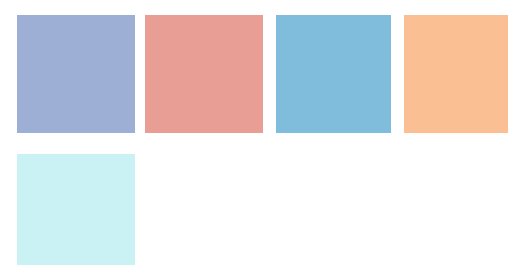
January 22, 2016



### Safety and Compatibility in "Hot" Appliance Couplers



### Alternative Method for Measuring Gain Compression



### UPCOMING EVENTS

JAN  
**25**  
Mon  
([http://incompliancemag.com/calendar/action~oneday/exact\\_date~25-1-2016/](http://incompliancemag.com/calendar/action~oneday/exact_date~25-1-2016/))

all-day Military Standard 810G (MIL-STD-... @ NTS Tinton Falls, NJ ([http://incompliancemag.com/event/military-standard-810g-mil-std-810g-testing-4/?instance\\_id=337](http://incompliancemag.com/event/military-standard-810g-mil-std-810g-testing-4/?instance_id=337))

JAN  
**26**  
Tue  
([http://incompliancemag.com/calendar/action~oneday/exact\\_date~26-1-2016/](http://incompliancemag.com/calendar/action~oneday/exact_date~26-1-2016/))

all-day TILE! Software @ ETS-Lindgren ([http://incompliancemag.com/event/tile-software/?instance\\_id=491](http://incompliancemag.com/event/tile-software/?instance_id=491))

JAN  
**28**  
Thu  
([http://incompliancemag.com/calendar/action~oneday/exact\\_date~28-1-2016/](http://incompliancemag.com/calendar/action~oneday/exact_date~28-1-2016/))

1:00 pm 2016 SIEMIC Webinars @ Online ([http://incompliancemag.com/event/2016-siemic-webinars/?instance\\_id=473](http://incompliancemag.com/event/2016-siemic-webinars/?instance_id=473))

Quadrant Management's Ted Deinard today announced that a final agreement has been signed to acquire MI Technologies, LLC to merge with NSI, joining the two premier microwave measurement companies into a single entity. This merger allows the companies to combine their resources to bring quality, cost effective products and systems to their customer bases. This [...]

*In Compliance News*

### Engineers Develop Metamaterial-Enabled Antennas to Improve Satellite Communications

*January 22, 2016*

Penn State engineers have used a tunable, lightweight metamaterial to build an antenna system that could improve satellite communications. Previously, metamaterials and small antennas have both been considered to be limited by their narrow operating bandwidths. However, the researchers found that by tuning a metamaterial and an antenna in tandem, they were able to create [...]

*In Compliance News*

ay/exact\_date~28-1-2016/)

<http://incompliancemag.com/calendar/>



#### ARCHIVE

##### JANUARY 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
« Dec						

#### THE INCOMPLIANCE DIRECTORY

On the hunt for a product, service, or resource? The In Compliance Directory has the solution for you!

Here's what trending in category searches right now:

- [Antennas +](#)
- [Components](#)
- [Shielding](#)
- [Testing Services](#)

Visit the directory to

**Discover more!**

#### TRENDING IN OUR LIBRARIES

- [IEC 60904-5](#)
- [Equalization](#)
- [IEC 61225](#)
- [IEC 60695-7-3](#)
- [Switch Mode Power Supply](#)

**incompliancemag**  
sharing the latest engineering  
news + info + resources

Follow Us

**incompliancemag**

sharing the latest engineering  
news + info + resources

Follow Us 

**incompliancemag**

sharing the latest engineering  
news + info + resources

Follow Us 

#### RECENT TWEETS

Sorry, no Tweets were found.

#### JOIN US ON FACEBOOK!

#### WHY IN COMPLIANCE?

We are a leading source in news, information, and resources for electrical engineering professionals.

Delivering the latest news, standards updates, technical explanations & guidance, and more - In Compliance is where engineers turn for education, information, and inspiration.

#### EXPLORE

Magazine  
Newsletters  
In Compliance Directory  
Standards Library

#### CONTRIBUTE

Editorial  
Advertise

#### INDUSTRY TOPICS

Aerospace  
Automotive  
Communications  
Consumer Electronics  
Education  
Energy & Power  
Industrial  
Information Technology  
Medical  
Military & Defense

**IN** COMPLIANCE

531 King St. Suite 5  
Littleton, MA 01460  
Tel (978) 486-4684