



The Industry's First 10Gbps Digital Isolator

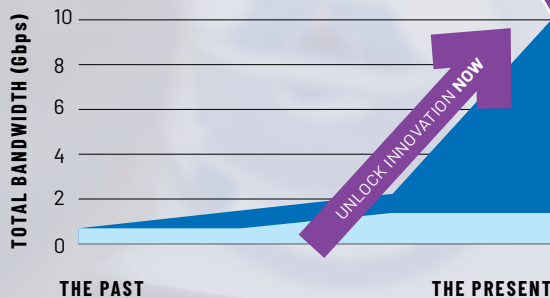
*ADI iCoupler Technology Delivers the World's
Fastest Digital Isolator*

Accelerating Digital Isolation to the Next Level

ADI's deep domain and system-level design expertise combine with our innovative iCoupler technology to create the most advanced digital isolation solutions for the most challenging applications. As the inventor of the digital isolator with over 4 billion channels shipped, ADI now makes a bold leap forward in isolation performance.

Innovating?
Look to ADI
with the
ADN4624

● ADI
● COMPETITION



**10 Gbps
Isolated**

UNLOCK INNOVATION NOW

Dream Big: Game-Changing Solutions That Simplify Connectivity

Digitize and electrify the world around us; robustly and safely transmit massive amounts of data.

- ▶ Seamlessly create isolated gigabit solutions
- ▶ Leverage digital interconnectivity density—eliminate bulky optical comms
- ▶ Expand the possibilities for precision monitoring, measurement, and control



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ADI iCoupler

Enhancing Isolated Connectivity Density

As the highest-speed, highest-density digital isolator on the market, the ADN4624's revolutionary technology enables unprecedented scalability for multi-gigabit serial communications in the industry's fastest and most integrated systems. Additional channel configurations, higher voltage rated capability, and package variations will be added to the ADN4624 family, addressing even more application use cases.



Electronic Test and Measurement

- ▶ Provides a floating ground with drop-in isolation of converter I/O, protecting equipment from damage and maintaining safety requirements.



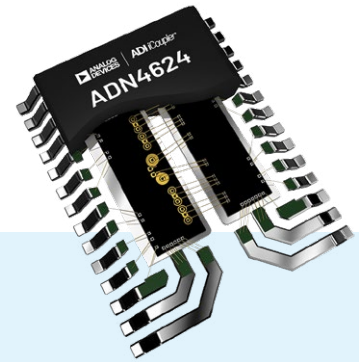
Smart Industry

- ▶ High Common Mode Immunity (CMTI) in noisy environments, even for low-voltage signaling, provides data accuracy and data integrity.



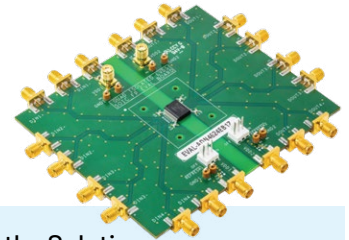
Digital Health

- ▶ Enables new solutions for non-invasive surgical and diagnostic tools. Safety isolation requirements are fulfilled with direct isolation of high-speed signals for HD resolution, resulting in a faster diagnosis.



ADN4624 Key Benefits

- ▶ Simplified high-speed isolated connectivity
 - Gigabit bandwidth to transfer ultra large amounts of data
- ▶ Enhanced robustness for harsh environments
 - Embedded safety isolation: protection from mains voltages and immunity to large transients
- ▶ System savings: decrease development time, lower cost and less space
 - Replaces larger and more complex discrete or fiber-based interconnectivity solutions



Test the Solution

- ▶ Quad Channel with 2.5Gbps per channel
- ▶ Direct isolation of high-speed serial LVDS or CML
- ▶ Up to 7.5 kV rms reinforced isolation
- ▶ Ultralow Jitter: <1 ps rms random jitter and <16 ps skew
- ▶ 2 MOPP, 100 kV/μs CMTI, ±8 kV IEC 61000-4-2 ESD



Safety Certifications | analog.com/iCouplerSafety.



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