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In the News

NVE's 1.1 mm-square magnetic sensors were covered in the October *Medical Product Manufacturing News*. An NVE medical device sensor was one of the magazine's Top Products.

“...typically consumes 29 nW at 0.9 V.”

[<More>](#)


Accolades

Forbes' prestigious list of **America's 100 Best Small Companies** has NVE at number 45. The list is in the November 8 issue.


NVE is on a list of the **fastest-growing public companies** in Minnesota, according to a ranking in the current issue of the *Minneapolis/St. Paul Business Journal*.

[<More Accolades>](#)

Fall Back

 Daylight Saving Time ends Sunday, November 7. Spin your clocks back an hour.

Lightning Fast

 Lightning-fast IL700S-Series isolators have a typical pulse-width distortion of 300 ps, which is the time it takes light to travel about three inches. At 1 Mbps, the distortion is analogous to two 1,000-foot wires matched within three inches.


[<More Fun Facts>](#)

Voicemail Playlist

 Bach's Toccata in D minor is quintessential scary music and our telephone [background music](#) salute to Halloween.

Toccatas are also fast and precise, just like IsoLoop isolators.

Thanksgiving

 NVE is closed Thursday and Friday, November 25 and 26.

Featured Product

S-Series Ultra-Fast Isolators

“S” stands for speed

The remarkable speed of the IL700S-Series Ultra-Fast Isolators all but eliminate signal distortion. Typical pulse width distortion is a jaw-dropping 300 picoseconds. Even if you don't need 150 Mbps, S-Series Isolators mean you don't have to worry about propagation delay, pulse width distortion, or propagation delay skew.

Other features include:

- Up to 150 Mbps data rate
- 300 ps typical pulse width distortion
- 100 ps typical jitter
- One or two channels (including bidirectional)
- 100°C max. temperature
- UL1577 and IEC 61010-1 approved
- 8-pin MSOP or SOIC packages

All S-Series part types are [in stock](#) and available for same-day shipment, with no minimum order:

Part Number	Mbps Data Rate	Tx Ch	Rx Ch	Packages
IL710S	150	1	0	MSOP-8, SOIC-8
IL711S	150	2	0	MSOP-8, SOIC-8
IL712S	150	1	1	MSOP-8, SOIC-8

Buy Online
\$9.95 shipping

Application Note Revision



[AB-19: PROFIBUS Compliance: A Hardware Design Guide \(.pdf; revised Oct. 2010\)](#)

An overview of best hardware design practices for **Profibus DP nodes**. Three important but sometimes tricky design considerations are covered: isolation, Profibus compatibility, and bus node polarity.

[<Download AB-19>](#)

[<List of All Isolator Application Notes>](#)

Distributor News

New Authorized Distributor in China



深圳市广达金芯科技有限公司

Shenzhen Quad Technology Co., Ltd. has joined NVE's world-class distributor network as an authorized IsoLoop Isolator distributor based in Shenzhen, China.

NVE's award-winning products are available in more than 75 countries and our distributors speak countless languages, including Mandarin Chinese.

[<Isolator Distributor Network>](#)

Halloween Application Corner

IsoLoop Isolators Stop Scary Timing

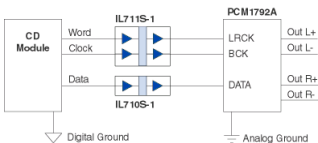


By **Sandy “Speedy” Templeton**
Director, Isolator Product Development and Applications

Isolating DACs and ADCs is can put a stake through the heart of noise and eliminate ground loop ghosts. But use conventional isolators, and yikes! Jitter and race conditions suck the precision from your system like a vampire in a blood bank. In an audio system, that can make your system shriek like a banshee.

IsoLoop isolators are a silver bullet for signal distortion.

For example, this circuit isolates the I²S serial interface between a CD module and a DAC:



Low-Jitter Isolation

All IsoLoop Isolators have an unmatched 100 picoseconds jitter. The ultrafast IL700S-Series Isolators have a maximum speed of 150 Mbps and typical pulse width distortion of a jaw-dropping 300 picoseconds.

So this Halloween, take the scary out of isolation timing.

[<IL700-Series Selector Guide>](#)