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**Datasheet Revisions**

NVE's flagship IL7xx IL2xx Digital Isolators now have extended power supply ranges as low as 2.5 volts (see story at right):

[IL710 1-ch Isolators Datasheet »](#)

[IL711 / IL712 / IL721 2-ch Isolator Datasheet »](#)

[IL715 / IL715 / IL717 4-ch Isolator Datasheet »](#)

[IL260 / IL261 / IL262 5-ch Isolator Datasheet »](#)

**In the News**

NVE was mentioned recently in *U.S. News & World Report*: "...perhaps one of the most interesting names among chip stocks." [Read more »](#)

**Transceivers With DC-DC Convertors**

**Unique DC-DC Converter Technology**

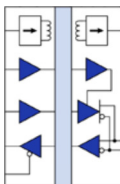
NVE has launched two new isolated transceivers with integrated DC-DC converters. The new products are based on the revolutionary IsoLoop<sup>®</sup> DC-DC converter technology first introduced last month in the world's smallest isolated DC-DC converter, the [ILD11-15E](#).

**Full- and Half-Duplex Versions**

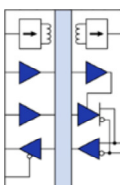
The two new products are the half-duplex [IL4685E](#), which combines an RS-485 transceiver and a DC-DC converter in a single package, and the full-duplex RS-422 [IL4622E](#). Both new devices have best-in-class 40 Mbps data rates.

**Unique Technology**

NVE's IsoLoop technology uses a unique ceramic/polymer composite barrier, which provides full 2.5 kV isolation and virtually unlimited barrier life.



IL4685 Transceiver with DC-DC Converter



IL4622 Transceiver with DC-DC Converter

**Low Parts Count**

The integrated DC-DC converters require no additional regulation and ferrite beads are not necessary for EMI mitigation.

Key IL4685E / IL4622E features include:

- Best-in-class 40 Mbps data rate
- 3.3-volt bus
- 2500 volts isolation
- Up to 16.5 kV bus ESD protection
- 16-pin wide-body SOIC

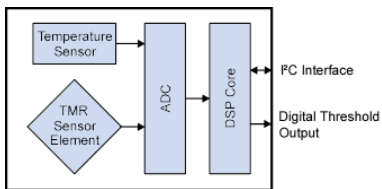
**Immediate Delivery**

All parts are [in stock](#) for immediate delivery:

**Buy Online**  
\$9.95 shipping

**I<sup>2</sup>C Magnetometer**

NVE's groundbreaking line of Smart Magnetometers has been expanded to include the SM228—an I<sup>2</sup>C version of the popular SM225 15 mT TMR magnetometer. I<sup>2</sup>C frees up a pin for a Digital Threshold output:



SM228 I<sup>2</sup>C Smart Magnetometer

Key Smart Magnetometer **features** include:

- Factory calibrated
- Internal temperature compensation
- Digital threshold outputs
- In-plane sensitivity-more usable than Hall effect
- Ultraminiature 2.5 x 2.5 x 0.8 mm TDFN6 package

These are some of the world-class **specifications**:

- Up to 24-bit resolution
- Accuracy up to 0.3% FS
- Up to 15 kSps sample rate
- 2.2 to 3.6 volt supplies
- -40 to 125 °C temperature range

**Applications** include:

- Current sensing
- Proximity sensing
- Automotive applications
- Cylinder position sensing
- Security and intrusion detection

**Available Now**

The new SM228 and the rest of our Smart Magnetometers are [in stock](#) for immediate delivery:

Part Number	Field Range	Accu- racy	Speed	Outputs	Pkg.
<a href="#">SM124-10E</a>	1 mT	5%	10 kSps	I <sup>2</sup> C; Digital Threshold	2.5 x 2.5 mm DFN6
<a href="#">SM125-10E</a>	4 mT	5%	15 kSps		
<a href="#">SM225-10E</a>	15 mT	2%	15 kSps	SPI	
<b>NEW</b> <a href="#">SM228-10E</a>	15 mT	2%	15 kSps	I <sup>2</sup> C; Digital Threshold	
<a href="#">SM324-10E</a>	2 mT	0.3%	300 Sps		

Smart Magnetometer [breakout boards](#) and [evaluation kits](#) are also available.

**Buy Online**  
\$9.95 shipping