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**Promotion**

**Jake Novotny** has been promoted to Director of Strategic Sales.

Jake joined NVE in 2018, and was promoted to Field Applications Scientist in 2019.

He has a B.S. degree Physics and Mathematics from the University of Minnesota.

[Contact Jake »](#)



**Best-in-Class Isolators with DC-to-DC Convertors**

NVE's industry leading isolators with integrated DC-to-DC converters have always had the smallest packages plus best-in-class regulation and ripple. Now they are even more feature-rich with soft start.

**Revolutionary Technology**  
NVE's revolutionary IsoLoop<sup>®</sup> DC-to-DC converter technology and patented GMR isolation technology give these parts best-in-class performance and miniaturization.

**Soft Start**  
The new parts feature a smooth output ramp-up with a minimum two millisecond startup to facilitate power sequencing such as allowing control electronics to start before the bus is powered.

**Low Parts Count**  
Just two external bypass capacitors are required for the DC-to-DC converters. No additional regulation and no ferrite beads for EMI mitigation are needed.

**Lowest Ripple**  
One millivolt peak-to-peak ripple on the DC-to-DC converter outputs is an order of magnitude less than conventional parts and means low noise and reliable systems.

**Boost Convertors Available**  
Versions are available with either 3.3-to-3.3 volt integrated DC-to-DC converters or 3.3-to-5 volt integrated boost convertors.

**Adequate Power**  
250 milliwatt integrated DC-to-DC converters provide enough current for plenty of bus nodes or external circuitry.

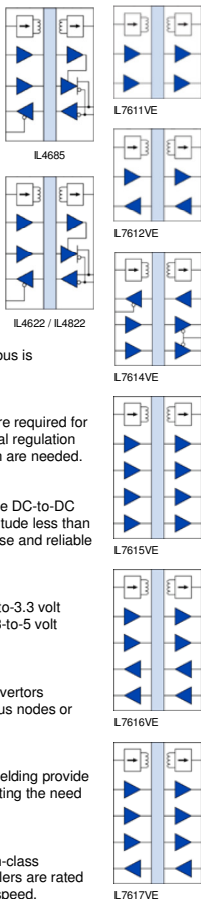
**Lowest EMI**  
Frequency hopping and integrated shielding provide the lowest EMI in the industry, eliminating the need for external shielding or ferrite beads.

**High Speed**  
The transceivers are rated at a best-in-class 40 megabits per second and the couplers are rated at a full 110 megabits per second for speed, transmission distance, and signal fidelity.

**Full Isolation**  
A unique ceramic/polymer composite isolation barrier provides the industry's best barrier resistance and virtually unlimited life. The transceivers are rated at a full 2.5 kVrms, and the data couplers at a remarkable 4 kVrms. All parts are UL1577 registered and certified under the stringent new VDE 0884-17 standard.

**Standard Package**  
The parts are packaged in a JEDEC-standard 16-pin wide-body package with true eight-millimeter creepage in accordance with IEC60601.

**A Range of Configurations**  
Various two-, three-, and four-channel data couplers are available for a variety of applications. The transceivers are available as half- or full-duplex with either a 3.3-to-3.3 volt DC-to-DC converter or 3.3-to-5 volt boost convertor for five-volt RS-485 or RS-422 busses.



Model	Channel Config.	DC-to-DC Converter	Isolation	Features
<a href="#">IL7611VE</a>	2/0	250 mW 3.3-to-3.3 V	4 kVrms	110 Mbps
<a href="#">IL7612VE</a>	1/1			
<a href="#">IL7614VE</a>	2/1			
<a href="#">IL7615VE</a>	4/0			
<a href="#">IL7616VE</a>	2/2			
<a href="#">IL7617VE</a>	3/1			
<a href="#">IL4622E</a>	RS-422/RS-485 full duplex			
<a href="#">IL4685E</a>	RS-485 half duplex			
<a href="#">IL4822E</a>	RS-422/RS-485 full duplex			

**Immediate Delivery**  
All nine models are [in stock](#) for immediate delivery.

- Demonstration Videos**
- [▶ IL7612 Demonstration »](#)
  - [▶ IL7617 Demonstration »](#)
  - [▶ IL4622 Demonstration »](#)

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\$9.95 shipping