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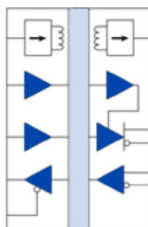
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NEW Isolated Transceiver With 3.3-to-5 V DC-to-DC Converter

NVE has introduced the [IL4822](#) isolated RS-485/RS-422 transceiver with an integrated 3.3-to-5 volt isolated DC-to-DC boost converter.

It is ideal for interfacing 3.3-volt controllers to ubiquitous five-volt busses. The new part complements the previously-announced [IL4622E](#), which has a 3.3-to-3.3 volt DC-to-DC converter for interfacing to newer 3.3 V busses.



The new part is based on the revolutionary IsoLoop[®] DC-to-DC converter technology first introduced in [ILDC11xxx](#) stand-alone isolated DC-to-DC converters.

Key IL4822 features include:

- 250 mW 3.3-to-5 volt DC-to-DC boost converter
- 40 Mbps RS-485 or RS-422 data rate
- 1 mVp-p DC-to-DC output ripple
- 2.5 kVrms isolation
- JEDEC-standard wide-body SOIC with true 8 mm creepage

High Power

The 250 mw integrated DC-to-DC boost converter has enough current to power a single bus node or multiple nodes.

Highest Speed

The IL4822 is rated at a best-in-class 40 Mbps for high speed, long transmission distances, and high signal fidelity RS-485 or RS-422 data transmission..

Lowest Ripple

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

Full Isolation

Both the transceiver and DC-to-DC converter modules are rated for full 2.5 kVrms isolation. The parts are VDE V 0884-11 certified under the stringent new IEC 60747-17 requirements, and UL1577 registered.

Standard Package

The new part is packaged in JEDEC-standard 16-pin wide-body packages with true 8 mm creepage in accordance with IEC60601.

Lowest EMI

Frequency hopping and integrated shielding provide the lowest EMI in the industry.

Low Parts Count

The integrated DC-to-DC converter requires no additional regulation and ferrite beads are not necessary for EMI mitigation.

Available Now

The new [IL4822E](#) is in stock for immediate delivery, as well as the 3.3-to-3.3 volt [IL4622E](#) and a full line of [IL76xxVE](#) data couplers with DC-to-DC converters.

Buy Online
\$9.95 shipping

Recent Exhibitions



2019.

Thanks to everyone who stopped by our booth at **Sensors Expo** in September in San Jose, Calif. It was our first face-to-face tradeshow in the U.S. since

Happy Mole Day

Mole Day will be 10-23!

It's a day where we all celebrate Avogadro's Number, and a mole goes a long way in spintronics.

For example, a mole of magnesium oxide (6.02×10^{23} molecules, or 40.3 grams) makes about an acre (43,560 square feet) of three nanometer-thick spin-dependent tunnel barrier.