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[High Isolation Voltage Isolator Datasheets](#)
 (surge voltage rating increased to a best-in-class 10 kV)

[AB-2: High Voltage Testing Standards Overview](#)
 (includes details on 10 kV surge testing)

[AAV004-02E Isolated Current Sensor Datasheet Rev. C](#)
 (isolation voltage spec increased to 2500 Vrms)

New NVE Directors

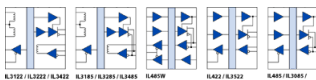
NVE shareholders elected two new Directors, Rich Kramp, former CEO of Synovis Life; and Gary Maharaj, CEO of SurModics, Inc. Both are tech-savvy engineers.

[NVE Investor Relations >](#)
Holiday


NVE will be closed Monday, September 1 for Labor Day.

Featured Products
Isolated RS-485 / RS-422 Bus Transceivers

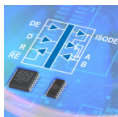
A broad line of award-winning IsoLoop® isolated RS-485/RS-422 bus transceivers ensure you can find the right part for your application.



Models provide up to 40 Mbps, 15 kV ESD protection, handshake channels, and fractional loads. Inputs can be digital or passive-input coils.

Versions are available in 0.15-inch and 0.3-inch SOIC packages, making these the most compact solutions in the world while still meeting applicable creepage and clearance safety standards.

Rugged durability is the hallmark of IsoLoop Isolators, and all models have excellent EMC footprints, 50 kV/μs transient immunity, and virtually unlimited barrier life. V-Series versions have 5 kVrms isolation and 1 kVrms Working Voltage for the most demanding applications.



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

Part Number (click for details)	Bus	Mbps	Nodes	ESD (kV)	Features	Packages
IL3085	485	4	32	7	Cost Effective	0.15"; 0.3"
IL3522	422	40	50	15	Very High Speed	0.3"
IL3585	485	40	50	15	Very High Speed	0.15"; 0.3"
IL3685	485	40	50	15	PROFIBUS	0.15"; 0.3"
IL422	422	25	32	2	Industry Standard	0.3"
IL485	485	35	32	2	Industry Standard	0.3"
IL485W	485	35	32	2	RS-485 + Handshake	0.3"
IL3122	422	5	32	15	Passive in; Low Cost	0.15"; 0.3"
IL3185	485	5	32	15	Passive in; Low Cost	0.15"; 0.3"
IL3222	422	5	256	15	Passive in; Fractional Load	0.15"; 0.3"
IL3285	485	5	256	15	Passive in; Fractional Load	0.15"; 0.3"
IL3422	422	20	32	15	Passive in; High Speed	0.15"; 0.3"
IL3485	485	20	32	15	Passive in; High Speed	0.15"; 0.3"

[Evaluation boards](#) are also available.

And coming soon, QSOP transceivers that are half the size of narrow-body transceivers and one-fourth the size of other isolators. Stay tuned for the details.

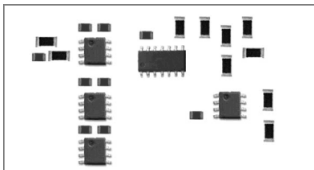
Buy Online
\$9.95 shipping

Labor Day Application Corner
Labor-Saving Single-Chip Isolated Transceivers

Labor Day is the perfect time to reduce design and manufacturing labor with isolated transceivers.

Isolated serial interfaces are often required for safety, and can improve data reliability by eliminating ground loops.

Conventional opto-isolated RS-485 circuits need separate transceiver and isolator chips. A Schmitt trigger is also required to condition slow slew rate opto-isolator edges before the transceiver. These design considerations mean a high component count board:



High labor content with a conventional isolated RS-485 circuit.

Single-chip isolated RS-485 transceivers dramatically reduce chip count.

As shown in the layout below, all that's required are a isolated transceiver chip and two power supply decoupling capacitors. Bus termination resistors can be added to maximize speed and transmission length by reducing reflections, although they may not be necessary. Fail-safe resistors can also be added to ensure a known bus state with no active transceivers.

In any case you can save labor and money with IsoLoop® isolated RS-485/RS-422 bus transceivers.

