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New Products

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Document Updates

[Isolator Catalog rev. M](#)
(includes new narrow-body transceivers)

[IL3585 Isolated RS-485 Transceiver Datasheet rev. O](#)

(includes new narrow-body versions, application circuits, and thermal resistance specifications)

[IL3685 Isolated PROFIBUS Transceiver Datasheet rev. K](#)

(includes new narrow-body versions, application circuits, and thermal resistance specifications)

[IL41050TA Isolated CAN Transceiver Datasheet rev. F](#)

(includes thermal resistance specifications)

New Products

[Narrow-Body Isolated RS-485 and PROFIBUS Transceivers](#)

[Narrow-Body RS-485 and PROFIBUS Eval Boards](#)

Recent Papers

Senior Research Physicist Dr. Joe Davies presented a paper, “**Low temperature coupling in [Co/Pd]/Cu/[Co/Ni] spin valves with perpendicular + anisotropy**” at the MMM/InterMag conference in January. [Links to Papers >](#)

Groundhog Day

PUNXSU-TAWNEY, Penn.— Feb. 2, 2013— It will be an early spring, according to Punxsutawney Phil.

“I left the *isolation* of my *ground loop*, and my *current sense*, my *gauss*, is an early spring.”

Narrow-Body Isolated RS-485 and PROFIBUS Transceivers

NVE recently introduced narrow-body versions of the popular IL3585 high-speed RS-485 transceivers and IL3685 PROFIBUS-compliant transceivers.



World's Smallest

The narrow-body versions, designated with the -3E suffix, are the world's smallest isolated transceivers. The “dash 3” 0.15-inch wide, 1.8 mm clearance height 16-pin SOIC packages are half the size of other isolators.

Best-in-Class Specs

Both new transceivers feature best-in-class speed and efficiency specifications, including 40 Mbps data rate, 20 ns typical propagation delay, and 3 mA typical controller-side quiescent current.

Both meet or exceed ANSI RS-485 and ISO 8482:1987(E) industry standards. IL3685-3E transceivers are also fully PROFIBUS compliant, including the rigorous PROFIBUS differential output voltage specifications.

Rugged and Reliable

Designed for rugged industrial applications, NVE's IL35- and IL36-Series isolated transceivers have a -40 to +85 degree Celsius temperature range, 15 kV bus ESD protection, and current limiting and thermal shutdown features. Receiver inputs feature a “fail-safe if open” design.

Parts are UL 1577 recognized and IEC 61010-1 approved. Unlike optocouplers or other isolation technologies, IsoLoop isolators have indefinite barrier life.

Available Now

The [IL3585-3E](#) and [IL3685-3E](#) are both [in stock](#) for immediate delivery.

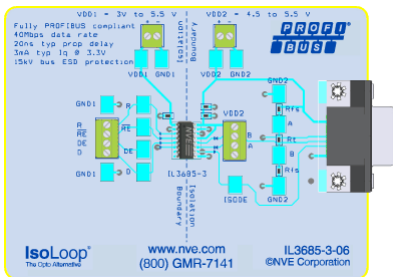
[Download IL3585 Isolated RS-485 Transceiver Datasheet >](#)
[Download IL3685 Isolated PROFIBUS Transceiver Datasheet >](#)

Buy Online
\$9.95 shipping

RS-485 and PROFIBUS Narrow-Body Isolator Eval Boards

Evaluation boards are available for both new narrow-body transceivers, the IL3585-3 and IL3685-3. Both boards provide complete nodes with reference design practices.

The RS-485 evaluation board includes an RJ45 bus connector, and the PROFIBUS board includes a PROFIBUS-standard DB9 connector.



PROFIBUS Evaluation Board

The evaluation boards demonstrate the space savings of NVE's unique “dash 3” 0.15-inch wide, 1.8 mm clearance height packages. Other features include:

- 40 Mbps data rate
- 20 ns typical propagation delay
- 3 mA typical controller-side quiescent current
- 15 kV bus ESD protection

[Download the Isolated RS-485 Narrow-Body Eval Board Manual >](#)
[Download the Isolated PROFIBUS Evaluation Board Manual >](#)

Buy Online
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Upcoming Exhibitions

embedded world 2013 Exhibition & Conference
... it's a smarter world
IsoLoop distributor HY LINE Power Components is exhibiting at the **Embedded World** exhibition, February 26 to 28 in Nuremberg, Germany. [IsoLoop Isolated Bus Transceivers](#), such as the new transceivers featured in this newsletter, are popular for embedded applications.