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World's Smallest Isolated Bus Transceivers

Award-winning IsoLoop® isolated Controller Area Network and RS-485 bus transceivers are now available in unique QSOP16 versions.



Designated with a "-1E" suffix, the QSOP isolated Controller Area Network transceiver is model IL41050TA-1E and the QSOP isolated RS-485 transceiver is model IL3085-1E.

World's Smallest

The new parts are the world's smallest isolated bus transceivers, one-fourth the size of other isolators.

Exceptional Specifications

Both transceivers feature exceptional specifications for performance and reliability.

IL41050TA isolated CAN transceivers feature 1 Mbps data rate, 180 nanoseconds typical loop delay, and just 12 milliamps quiescent supply current (recessive). The transceivers have a -40 to +125 degree Celsius temperature range and a Charged Device Model (CDM) ESD rating of plus or minus 500 volts.

IL3085 isolated RS-485 transceivers meet or exceed ANSI RS-485 and ISO 8482:1987(E) industry standards. They operate at up to 4 Mbps data rate and have just 3 milliamp typical controller-side quiescent current. IL3085 transceivers have a -40 to +85 degree Celsius temperature range, 15 kV bus ESD protection, and current limiting and thermal shutdown features.

Unlike optocouplers or other isolation technologies, all IsoLoop isolators have indefinite life at high voltage.

Agency Compliance

Both new QSOP bus transceivers are rated at 600 working volts under IEC 60747-5-5 (VDE 0884), and full 2500 volts isolation voltage under UL 1577.

Available Now

Both new parts are [in stock](#) for immediate delivery.

Evaluation Boards

Evaluation boards are available for both new QSOP transceivers. Both boards provide isolated network nodes with reference design practices. The boards include termination resistors and screw terminals for easy connections. The IL3085-1 board also includes an RJ45 RS-485 bus.

- [Download IL41050TA Datasheet >](#)
- [Download IL3085 Datasheet >](#)

Buy Online
\$9.95 shipping

NVE Going to Jupiter



IsoLoop Isolators in Europa Clipper Design

NVE has been notified that NASA identified three IsoLoop Isolators for inclusion in circuitry of the Europa Clipper.

The Europa Clipper mission is a recently approved venture to a moon of Jupiter. Europa is suspected of having a liquid water ocean and has one of the highest probabilities of extraterrestrial life in the Solar System. The mission will investigate whether Europa has conditions suitable for life. The proposed launch is in 2025 and it could take six years for the spacecraft to reach Europa.

Environmental and quality requirements for the mission are extremely stringent, and IsoLoop Isolators have unmatched reliability including an extraordinary 44000-year extrapolated barrier life. NVE components are proven in some of the world's most demanding applications, including military, aerospace, and life-sustaining medical devices.

Europa Clipper parts will undergo special screening, but the Isolators will be the same ones you can buy for your own important mission.

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\$9.95 shipping

QSOP Isolators



New [QSOP isolated bus transceivers](#) are just the latest of NVE's award-winning products available in ultraminiature QSOP packages. NVE offers a full line of QSOP isolators that prove miniaturization doesn't have to mean performance compromises.

Key QSOP isolator features include:

- 4 mm x 5 mm
- 4 or 5 Channels, RS-485, or CAN
- 50 kV/µs Typ. Transient Immunity
- 600 WV per VDE 0884
- 2.5 kVrms Isolation
- IEC 60747 (VDE 0884) certified; UL 1577 approved
- 44000 Year Barrier Life
- 4 mm Creepage

All part types are [in stock](#) and available for same-day shipment, with no minimum order:

Part Number	Transmit/Receive Channels	Data Rate (Mbps)
IL715-1E	4/0	110
IL716-1E	2/2	110
IL717-1E	3/1	110
IL260-1E	5/0	110
IL261-1E	4/1	110
NEW IL3085-1E	RS-485	4
NEW IL41050-1E	CAN	1

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