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Accolades

NVE received a 2011 North American Technology Innovation of the Year Award for the Magnetic Sensors market from Frost & Sullivan.

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Spring Forward

Daylight Saving Time begins Sunday, March 13. Set your clocks forward an hour. It's also a good time to check smoke alarms and make sure your interface circuits are isolated.

St. Patrick's Day Jokes

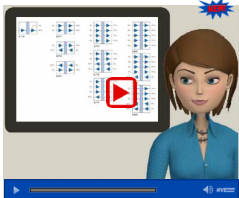
- Q. What's Irish and stays out all night?
A. Patty O'Furniture.
- Q. What's big and purple and lies next to Ireland?
A. Grape Britain.

Featured Product
IL700/IL200 Series Isolators
The Ultimate in Speed and Performance

The IL700 and IL200-Series Digital Isolators provide unsurpassed performance and flexibility, including highest data rates, smallest packages, lowest distortion, low power consumption, widest temperature range, and 2,500 Vrms isolation. All devices are UL1577 and IEC61010 approved. Popular IL700/IL200 applications include serial interfaces, isolated CANbus, isolated SPI, isolated A/D converters, and power interfaces.

The Opto Alternative

Click on our [new video](#) for an overview of these industry-leading parts:



IL700/IL200 features include:

- IL200 Series—Five channels per package
- IL700-1 Series—World's smallest isolators (MSOP-8)
- IL700S Series—Fastest (150 Mbps) and lowest PWD (300 ps)
- IL700T Series—Highest operating temperature (125°C)

All IL700/IL200 part types are [in stock](#) and available for same-day shipment, with no minimum order.

Parameters	Min.	Typ.	Max.	Units
Data Rate (S-Series)	100 (130)	110 (150)		Mbps
PWD (S-Series)		3 (0.3)	3	ns
Propagation Delay		10	15	ns
Prop. Delay Skew		4	6	ns
Pulse Jitter		100		ps
Transient Immunity	20	30		kV/μs
Temperature Range				
Std. IL700 Series	-40		+100	°C
T-Series	-40		+125	
IL200 Series	-40		+85	

[Buy Online](#)
\$9.95 shipping

St. Patrick's Day Featured Distributor

Founded in 1975, Rhopoint became one of NVE's first distributors in 1995.

Rhopoint and its affiliates support NVE sensors and isolators in Ireland (St. Patrick's Day and year round), as well as the UK and Scandinavia.



NVE's award-winning products are available in more than 75 countries and our distributors speak countless languages, even if you count what they speak in the UK and Ireland as English.

- [«Rhopoint Sensors»](#)
- [«Rhopoint Isolators»](#)

From the Application Desk
Real-world questions from the NVE Application Desk

Q. The IL700 datasheet specifies a maximum data rate of at least 100 Mbps (150 Mbps for the S-Series) but the maximum frequency is 50 Mhz. What's the difference between baud and hertz?

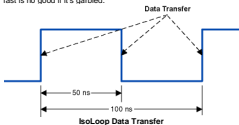
A. There are two bits of data in every 50 ns cycle running at the maximum speed (see diagram below). Therefore:

$$\text{Maximum data rate} = 2 \times \text{maximum frequency}$$

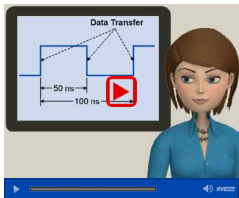
So the maximum data rate is 100 Mbps for 50 MHz devices like IL700-Series Isolators.

Extracting, or qualifying that data requires a 100 MHz clock, but the maximum transfer rate is still 100 Mbps.

In addition to best in class speed, IsoLoop isolators have remarkable pulse-width distortion and jitter specifications. Because fast is no good if it's garbled.



Click on our [new video](#) explaining baud and hertz:



[«Email the applications desk»](#)