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Featured Products

IL600-Series Opto Replacement Isolators

The award-winning IL600 and IL600A Passive-Input Isolators provide unique passive inputs for flexibility similar to LED-input optocouplers.



Popular IL600/IL600A Series applications include isolated PLCs, serial interface receivers, wired-OR controls, and level-shifting interfaces such as the example in the [Application Corner](#).

Key product features are:

- Failsafe operation
- DC correct
- 5 mA input current
- No carrier or clock for low EMI emissions and susceptibility
- 3.3 V or 5 V supply
- UL 1577 recognized; IEC 60747-5-5 (VDE 0884) certified
- 44000-year barrier life
- PDIP, SOIC8, SOIC16N, SOIC16W, and unique MSOP8

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

Part Number	Mbps Data Rate	Tx Ch	Rx Ch	Output	Packages
IL610	100	1	0	CMOS	Bare die, MSOP-8, SOIC-8, PDIP-8
IL610A	10	1	0	Open-drain	Bare die, MSOP-8, SOIC-8, PDIP-8
IL611	100	2	0	CMOS	CMOS MSOP-8, SOIC-8, PDIP-8
IL611A	10	2	0	Open-drain	CMOS MSOP-8, SOIC-8, PDIP-8
IL612	100	1	1	CMOS	SOIC-8, PDIP-8
IL612A	10	1	1	Open-drain	SOIC-8, PDIP-8
IL613	100	3	0	CMOS	0.15" SOIC-16, 0.3" SOIC-16
IL614	100	2	1	CMOS	0.15" SOIC-16, 0.3" SOIC-16

Buy Online
\$9.95 shipping

Recent Exhibitions



NVE products were on display at **PCIM Europe** in May. The company highlighted new [IL800-Series Top-of-the-Line Isolators](#) and [QSOP Isolators](#).

Upcoming Exhibitions



NVE sensors will be on display at **Sensor+Test 2014** June 3 to 5 in Nürnberg, Germany. NVE will exhibit in cooperation with distributor IS-LINE.

An NVE engineer will be at the exhibition to meet customers and answer questions.

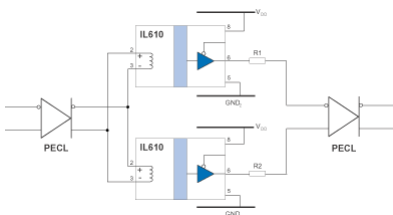
Applications Corner

Isolated ECL and PECL Interfaces

Unique passive inputs and true 100 Mbps speed make IL600-Series Isolators ideal for isolating Emitter Coupled Logic (ECL / NECL) or Positive Emitter Coupled Logic (PECL) circuits.

In addition to providing isolation, IL600-Series Isolators can level shift ECL signals to interface to other types of logic.

Here's an example:



Isolated ECL Interface

The impedance of the two isolator input coils in parallel will be close to 50 ohms, so current limiting resistors on the isolator inputs aren't needed.

R1 and R2 are selected to provide enough current to switch the PECL gate without exceeding the maximum isolator output current.

The circuit is drawn for PECL, but for NECL one merely needs to ground pin 8 and connect pin 5 to the negative supply.