

**Optocoupler Drive 1-CH 5.5V 1500V 8-Pin SOIC N T/R****Manufacturer:** [Skyworks Solutions, Inc](#)**Package/Case:** SOP8**Product Type:** Optoelectronics**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

Si87xx devices isolate high-speed digital signals and offer performance, reliability, and flexibility advantages unavailable with competing optocoupler products. Si87xx products are based on our proprietary CMOS isolation technology for low-power and high-speed operation, providing longer service life and dramatically higher reliability compared to traditional optocouplers. Si87xx isolators are resistant to the wear-out effects found in optocouplers, which degrade performance with increasing temperature, forward current, and device age.

Si87xx isolators are pin-compatible, single-channel, drop-in optocoupler replacements with data rates up to 15 Mbps. Ordering options include open collector or push-pull outputs with and without integrated pull-up resistor and output enable pin.

## Key Features

Pin-compatible, drop-in upgrades for popular high-speed digital optocouplers

Performance and reliability advantages vs. optocouplers

Resistant to temperature, age, and forward current effects

10x lower FIT rate for longer service life

Higher common-mode transient immunity: >50 kV/μs typical

Lower power and forward input diode current

PCB footprint compatible with optocoupler packaging

Wide range of product options

Resistant to temperature, age, and forward current effects

10x lower FIT rate for longer service life

Higher common-mode transient immunity: >50 kV/μs typical

Lower power and forward input diode current

Diode emulator input

3 to 30 V open collector output

Propagation delay 30 ns typical

Data rates from dc to 15 Mbps

3.75 and 5 kV reinforced isolation

UL, CSA, and VDE certifications

Wide operating temperature range -40 to +125 °C

RoHS-compliant packages

## Recommended For You

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### SI8235BB-C-IS1

Skyworks Solutions, Inc

SOP16

### SI8220BD-A-IS

Skyworks Solutions, Inc

SOP16

### SI3471A-A01-IM

Skyworks Solutions, Inc

38-QFN

### SI8751AB-IS

Skyworks Solutions, Inc

SOP8

### SI8233BB-D-IS1R

Skyworks Solutions, Inc

SOP16

### SI8233BD-D-ISR

Skyworks Solutions, Inc

SOP16

**SI8233BB-C-IS**

Skyworks Solutions, Inc

SOP16

**SI8235AB-D-IMR**

Skyworks Solutions, Inc

LGA14

**SI8233BB-C-IS1**

Skyworks Solutions, Inc

SOP16

**SI8233BD-C-IS**

Skyworks Solutions, Inc

SOP16

**SI3473B-A01-IM**

Skyworks Solutions, Inc

QFN

**SI3462-E01-GM**

Skyworks Solutions, Inc

QFN11

**SI8946AD-IS4**

Skyworks Solutions, Inc

Tube

**SI3472B-A01-IM**

Skyworks Solutions, Inc

38-QFN5x7

**SI8947BD-IS4**

Skyworks Solutions, Inc

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