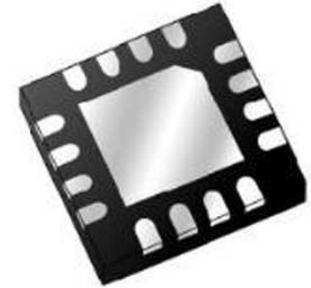


Power Line Communication (PLC); Temperature Range: -40°C to 85°C; Package: 16-QFN  
T&R

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	QFN16
Product Type	Conectores
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL1571IRZ-T7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ISL1571 is a dual operational amplifier designed for PLC line driving in Orthogonal Frequency-Division Multiplexing (OFDM) and Spread Spectrum Communication (SSC) based solutions. This device features a high drive capability of 750mA while consuming only 6mA of supply current per amplifier and operating from a single 4.5V to 12V supply. The driver achieves a typical distortion of -80dBc, at 150kHz into a 25Ω load.

The ISL1571 is available in the thermally-enhanced 16 Ld QFN or 10 Ld HMSOP package and is specified for operation across the full -40°C to +85°C temperature range. The ISL1571 has control pins BIAS0 and BIAS1 for controlling the bias and enable/disable of the outputs. These controls allow for lowering the power to fit the performance/power ratio for the application.

The ISL1571 is ideal for line driving applications following the Homeplug 1.0, Homeplug AV and UPA standard based PLC.

## Features

21dBm output power capability

Drives up to 750mA from a +12V supply

20VP-P differential output drive into 21Ω

Very low noise floor

-75dBc typical driver output distortion at 4MHz

-80dBc typical driver output distortion at 10MHz

-79dBc typical driver output distortion at 17MHz

Low quiescent current of 6mA per amplifier

Supply range

ISL1571IUEZ: 4.5V to 12V

ISL1571IRZ ±2.25V to ±6V: 4.5V to 12V

250MHz bandwidth

Thermal shutdown

Pb-free (RoHS compliant)

## Related Products



### [ISL1571IUEZ-T7](#)

Renesas Technology Corp  
MSOP-10



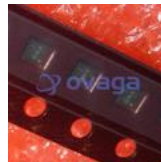
### [ISL1571IUEZ](#)

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MSOP-10



### [ISL1571IRZ](#)

Renesas Technology Corp  
QFN-16



### [UPG2163T5N](#)

Renesas Technology Corp  
TSON-6



### [R5F3650KCDFB](#)

Renesas Technology Corp  
TQFP-100



### [HC55185ECMZ96](#)

Renesas Technology Corp  
PLCC-28



[HC55185DIMZ96](#)

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PLCC-28



[HC55185DIMZ](#)

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