

Fanout Buffer 1:9, LVPECL, LVDS, CML, CMOS, DC to 8 GHz, 9 Outputs, 3 V to 3.6 V supply, QFN-32

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	32-VFQFN
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC987LP5E or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The HMC987LP5E 1-to-9 fanout buffer is designed for low noise clock distribution. It is intended to generate relatively square wave outputs with rise/ fall times < 100 ps. The low skew and jitter outputs of the HMC987LP5E, combined with its fast rise/ fall times, leads to controllable low-noise switching of downstream circuits such as mixers, ADCs/DACs or SERDES devices. The noise floor is particularly important in these applications, when the clocknetwork bandwidth is wide enough to allow squarewave switching. Driven at 2 GHz, outputs of the HMC987LP5E have a noise floor of -166 dBc/Hz, corresponding to a jitter density of 0.6 asec/rtHz - or 50 fs over an 8 GHz bandwidth.

The input stage can be driven single-ended or differentially, in a variety of signal formats (CML, LVDS, LVPECL or CMOS), AC or DC coupled. The input stage also features adjustable input impedance. It has 8 LVPECL outputs, and 1 CML output with adjustable swing/power-level in 3 dB steps.

Individual output stages may be enabled or disabled for power-savings when not required using either hardware control pins, or under control of a serial-port interface.

## Features

Ultra Low Noise Floor: -166 dBc/Hz @ 2 GHz

LVPECL, LVDS, CML & CMOS Compatible Inputs

Up to 8 Differential or 16 Single-Ended LVPECL Outputs

One Adjustable Power CML/RF Output

Serial or Parallel Control, Hardware Chip-Enable

Power-Down Current < 1 uA

32 Lead 5x5 mm SMT Package 25 mm<sup>2</sup>

## Application

SONET, Fibre Channel, GigE Clock Distribution

ADC/DAC Clock Distribution

Low Skew and Jitter Clock or Data Fanout

Wireless/Wired Communications

Level Translation

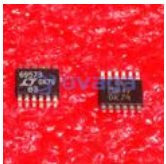
High Performance Instrumentation

Medical Imaging

Single-Ended to Differential Conversion



### Related Products



#### [LTC6957HMS-3#PBF](#)

Analog Devices, Inc  
MSOP-12



#### [HMC769LP6CE](#)

Analog Devices, Inc  
40-QFN



#### [HMC838LP6CE](#)

Analog Devices, Inc  
QFN-40



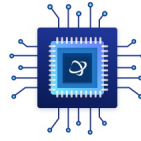
#### [HMC703LP4E](#)

Analog Devices, Inc  
QFN-24



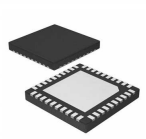
[HMC807LP6CETR](#)

Analog Devices, Inc  
QFN40



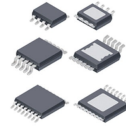
[HMC1031MS8E](#)

Analog Devices, Inc  
8-MS8E



[HMC835LP6GE](#)

Analog Devices, Inc  
QFN40



[LTC6957HMS-1#PBF](#)

Analog Devices, Inc  
MSOP-12