

Clock Generator 20MHz to 7GHz-IN 16-Pin TSSOP T/R

Manufacturer: [Analog Devices, Inc](#)

Package/Case: TSSOP16

Product Type: Clock & Timer ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The ADF4107 frequency synthesizer can be used to implement local oscillators in the up-conversion and down-conversion sections of wireless receivers and transmitters. It consists of a low-noise digital PFD (phase frequency detector), a precision charge pump, a programmable reference divider, programmable A and B counters, and a dual-modulus prescaler ($P/P + 1$). The A (6-bit) and B (13-bit) counters, in conjunction with the dual-modulus prescaler ($P/P + 1$), implement an N divider ($N = BP + A$). In addition, the 14-bit reference counter (R counter), allows selectable REFIN frequencies at the PFD input. A complete PLL (phase-locked loop) can be implemented if the synthesizer is used with an external loop filter and VCO (voltage controlled oscillator). Its very high bandwidth means that frequency doublers can be eliminated in many high frequency systems, simplifying system architecture and reducing cost.

Key Features

7.0 GHz bandwidth

2.7 V to 3.3 V power supply

Separate charge pump supply (VP) allows extended tuning voltage in 3 V systems

Programmable dual-modulus prescaler 8/9, 16/17, 32/33, 64/65

Programmable charge pump currents

Programmable antibrake pulsewidth

3-wire serial interface

Analog and digital lock detect

Hardware and software power-down mode



Recommended For You

ADF4153BCPZ

Analog Devices, Inc

QFN

ADF5355BCPZ

Analog Devices, Inc

LFCSP32

AD8318ACPZ

Analog Devices, Inc

LFCSP

AD6620ASZ

Analog Devices, Inc

QFN

ADF4107BCPZ

Analog Devices, Inc

QFN

ADL5513ACPZ-R7

Analog Devices, Inc

LFCSP-16

AD8319ACPZ

Analog Devices, Inc

LFCSP

ADRF6755ACPZ

Analog Devices, Inc

QFN

ADL5535ARKZ-R7

Analog Devices, Inc

SOT89

AD608AR

Analog Devices, Inc

SOP16

ADRF6780ACPZN

Analog Devices, Inc

QFN

AD8317ACPZ

Analog Devices, Inc

LFCSP

AD608ARZ

Analog Devices, Inc

SOP16

AD8318ACPZ-REEL7

Analog Devices, Inc

LFCSP

ADF7021BCPZ

Analog Devices, Inc

LFCSP48