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Keywords: GPS receiver, MAX2769, RF

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APPLICATION NOTE 4279

WHAT'S NEW PRODUCTS SOLUTIONS

MAX2769 GPS Reference Design

Abstract: This reference design is a complete RF front-end solution for a GPS receiver using Maxim's MAX2769 GPS receiver chip. The MAX2769 is a low cost, single conversion, low IF GPS receiver that offers two integrated LNAs with different specifications, I/Q channel filters with variable bandwidth and order, and a digital IF output that supports 1-bit and 2-bit operation. This reference design offers high performance, small size, and low BOM cost.

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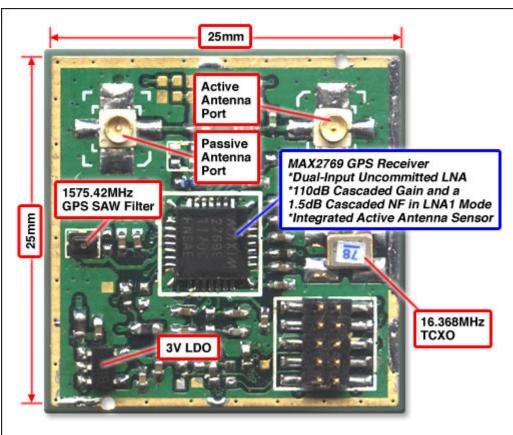


Figure 1. GPS reference design features the MAX2769.

Important Design Features

- Dual-Input Uncommitted LNA for Separate Passive and Active Antenna Inputs
- Integrated Active Antenna Sensor Which Can Autoswitch the Antenna Input
- The I and Q Channel-Select Filters Can Be Selected as Either Third or Fifth Order
- Provides 110dB Cascaded Gain and a 1.5dB Cascaded NF in LNA1 Mode
- The IF Output Is Adjustable in 63 Steps Between OMHz and 12.5MHz
- Can Be Used in Preconfigured States that Do not Require Programming Through the 3-wire SPI™ Interface

1 of 2 10/18/2008 11:44 PM

2 of 2