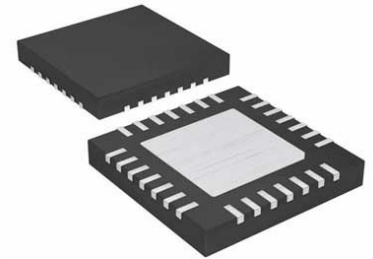



GPS Receiver 1575.42MHz 3.3V Automotive 28-Pin TQFN EP

T/R



Images are for reference only

[Inquiry](#)

Manufacturer:	Maxim Integrated
Package/Case:	QFN28
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The MAX2769 is the industry's first global navigation satellite system (GNSS) receiver covering GPS, GLONASS, and Galileo navigation satellite systems on a single chip. This single-conversion, low-IF GNSS receiver is designed to provide high performance for a wide range of consumer applications, including mobile handsets. Designed on Maxim's advanced, low-power SiGe BiCMOS process technology, the MAX2769 offers the highest performance and integration at a low cost. Incorporated on the chip is the complete receiver chain, including a dual-input LNA and mixer, followed by the image-rejected filter, PGA, VCO, fractional-N frequency synthesizer, crystal oscillator, and a multibit ADC. The total cascaded noise figure of this receiver is as low as 1.4dB. The MAX2769 completely eliminates the need for external IF filters by implementing on-chip monolithic filters and requires only a few external components to form a complete low-cost GPS receiver solution. The MAX2769 is the most flexible receiver on the market. The integrated delta-sigma fractional-N frequency synthesizer allows programming of the IF frequency within a $\pm 40\text{Hz}$ accuracy while operating with any reference or crystal frequencies that are available in the host system. The integrated ADC outputs 1 or 2 quantized bits for both I and Q channels, or up to 3 quantized bits for the I channel. Output data is available either at the CMOS logic or at the limited differential logic levels. The MAX2769 is packaged in a compact 5mm x 5mm, 28-pin thin QFN package with an exposed paddle. The part is also available in die form. Contact the factory for further information.

Key Features

GPS/GLONASS/Galileo Receivers

No External IF SAW or Discrete Filters Required

Programmable IF Frequency

Fractional-N Synthesizer with Integrated VCO Supports Wide Range of Reference Frequencies

Dual-Input Uncommitted LNA for Separate Passive and Active Antenna Inputs

1.4dB Cascade Noise Figure

Integrated Crystal Oscillator

Integrated Active Antenna Sensor

10mA Supply Current in Low-Power Mode

2.7V to 3.3V Supply Voltage

Small, 28-Pin, RoHS-Compliant, Thin QFN Lead-Free Package (5mm x 5mm)

Application

Digital Still Cameras and Camcorders

In-Vehicle Navigation Systems

Laptops and Ultra-Mobile PCs

Location Based Services (LBS)

PDA's (Personal Digital Assistants)

PMP's (Personal media Players)

PND's (Personal Navigation Devices)

Recreational/Marine Navigation/Avionics

Software GPS

Telematics (Asset Tracking, Inventory Management)

Recommended For You

MAX2309EGI

Maxim Integrated

QFN

MAX2021ETX

Maxim Integrated

QFN

MAX2150EII

Maxim Integrated

QFN

MAX2608EUT

Maxim Integrated

SOT23-6

MAX2829EIN+

Maxim Integrated

QFN56

MAX2606EUT

Maxim Integrated

SOT23-6

MAX2015EUA+

Maxim Integrated

MSOP8

MAX2051EIP+

Maxim Integrated

QFN-52

MAX41461GUB+

Maxim Integrated

MSOP10

MAX4003EUA+T

Maxim Integrated

MSOP8

MAX1473EUI

Maxim Integrated

TSSOP28

MAX2674EWT+T

Maxim Integrated

6WLP

MAX4003EUA+

Maxim Integrated

MSOP8

MAX2659ELT+T

Maxim Integrated

UDFN-6

MAX2769EII+

Maxim Integrated

28TQFN