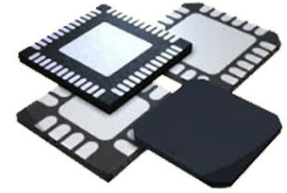



## GPS Receiver 1575.42MHz 1.32V/1.89V/3.6V 56-Pin VFQFPN EP Tray



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">STMicroelectronics, Inc</a>
<b>Package/Case:</b>	QFN
<b>Product Type:</b>	Discrete Semiconductor Modules
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

STA8089G belongs to Teseo III family products. STA8089G is a single die standalone positioning receiver IC working on multiple constellations (GPS/Galileo/GLONASS/BeiDou/QZSS). The device is offered with a complete GNSS firmware which performs all GNSS operations including tracking, acquisition, navigation and data output. STA8089GBD can run also TESEO-DRAW the STMicroelectronics dead reckoning firmware.

## Key Features

STMicroelectronics® positioning receiver with 48 tracking channels and 2 fast acquisition channels supporting GPS, Galileo, GLONASS, BeiDou and QZSS systems

ST DRAW (Dead Reckoning Automotive Way) supported (STA8089GBD Only)

Pin to pin compatible with STA8088G

Single die standalone receiver embedding RF Front-End and low noise amplifier

Fast TTFF

High performance ARM946 MCU (up to 196 MHz)

External SQI Flash interface

256 Kbyte embedded SRAM

Real Time Clock (RTC) circuit

32-bit Watch-dog timer

2 UARTs

1 I2C master/slave interface

USB2.0 full speed (12 MHz) with integrated physical layer transceiver

2 Controller Area Network (CAN)

2 channels ADC (10 bits)

Operating condition:

Main voltage regulator (VINL):  $1.8\text{ V} \pm 5\%$

Backup voltage (VINB): 1.6 V to 4.3 V

Digital voltage (VDD): 1.1 V to 1.32 V

RF core voltage (VCC):  $1.2\text{ V} \pm 10\%$

IO Ring Voltage (VddIO):  $1.8\text{ V} \pm 5\%$  or  $3.3\text{ V} \pm 10\%$

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Package:

VFQFPN56 (7 x 7 x 1.0 mm) 0.4 mm pitch

VFQFPN56 (7 x 7 x 1.0 mm) 0.4 mm pitch

Operating temperature range: -40/+85°C

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## Recommended For You

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**STA5620**

STMicroelectronics, Inc

QFN

**ST25RU3993-BQFT**

STMicroelectronics, Inc

QFN48

**ST25R95-VMD5T**

STMicroelectronics, Inc

QFN32

**STA8090FG**

STMicroelectronics, Inc

BGA

**STA8088GA**

STMicroelectronics, Inc

QFN

**ST95HF-VMD5T**

STMicroelectronics, Inc

QFN32

**ST25DV16K-JFR6D3**

STMicroelectronics, Inc

12UFDFPN

**ST25R3920-AQWT**

STMicroelectronics, Inc

VFQFPN32

**ST25DV04K-IER6C3**

STMicroelectronics, Inc

DNF8

**STA8089GA**

STMicroelectronics, Inc

QFN

**STA8088FG**

STMicroelectronics, Inc

VFQFPN56

**ST25DV04K-IER6S3**

STMicroelectronics, Inc

SOP8

**SMA661ASTR**

STMicroelectronics, Inc

SOT666

**ST25R3916-AQWT**

STMicroelectronics, Inc

QFN32

**STMB2WB55CGU7**

STMicroelectronics, Inc

UFQFN48