

# BGSA14M3N10

## Antenna tuning SP4T

### Features

- Low  $R_{ON}$  resistance of 1.1  $\Omega$  in ON state
- Low  $C_{OFF}$  capacitance of 116 fF in OFF state
- RF operating voltage handling 45 V in OFF state
- MIPI RFFE 2.1 control interface
- Single VIO supply supporting both 1.2 V and 1.8 V
- 4 default USID addresses via external USID\_SEL pin
- External USID\_SEL pin enabling 4 default USID addresses
- Small form factor 0.95 mm x 1.3 mm (MSL1, 260°C per JEDEC J-STD-020)



### Potential applications

- Impedance, antenna, capacitance and inductance tuning
- Tunable filters



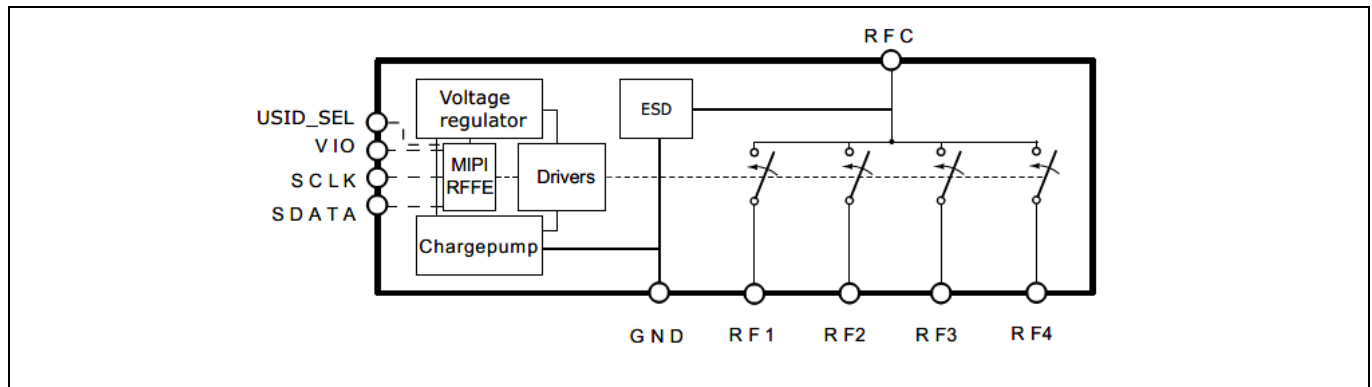
### Description

The BGSA14M3N10 is a very compact Single Pole Four Throw (SP4T) Antenna tuning switch optimized for RF applications up to 7.125 GHz.

The BGSA14M3N10 offers a powerful combination of low  $R_{ON}$  and  $C_{OFF}$  together with a high RF voltage ruggedness, making it a perfect fit for switching any reactive components such as inductors and capacitors without significant losses.

# Antenna tuning SP4T

## Block diagram and ordering information



**Figure 1 BGSA14M3N10 Block diagram**

**Table 1 Ordering Information**

Type	Marking	Package	Product name
BGSA14M3N10	M3	TSNP-10-9	BGSA 14M3N10 E6327

For more technical information, please contact our Technical Assistance Center or your local Infineon representative.

### Trademarks

All referenced product or service names and trademarks are the property of their respective owners.

Edition 2019-09-16

Published by

Infineon Technologies AG

81726 München, Germany

© 2024 Infineon Technologies AG.

All Rights Reserved.

Do you have a question about this document?

Email: [erratum@infineon.com](mailto:erratum@infineon.com)

Document reference

ifx1

### IMPORTANT NOTICE

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffheitsgarantie").

With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of Infineon Technologies in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

For further information on the product, technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies office ([www.infineon.com](http://www.infineon.com)).



### WARNINGS

Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.





Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies' products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View BGSA14M3N10E6327XTSA1 on WIN SOURCE](#)
-  [Infineon Technologies Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management