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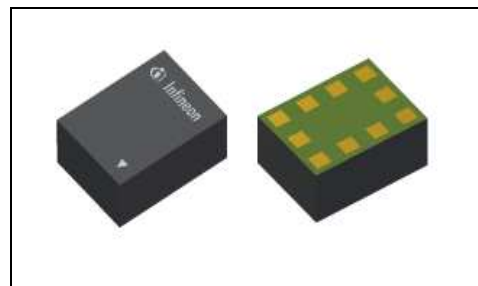


# BGSX22G2A10

## DPDT Antenna Cross Switch

### Features

- RF CMOS DPDT antenna cross switch with power handling capability of up to 36.5 dBm
- Suitable for multi-mode LTE and WCDMA multi antenna applications
- Ultra-low insertion loss and harmonics generation
- 0.1 to 6.0 GHz coverage
- High port-to-port-isolation
- No decoupling capacitors required if no DC applied on RF lines
- General Purpose Input-Output (GPIO) Interface
- Small form factor 1.15mm x 1.55mm
- No power supply blocking required
- High EMI robustness
- RoHS and WEEE compliant package



### Description

The BGSX22G2A10 RF MOS switch is specifically designed for LTE and WCDMA triple antenna applications. This DPDT offers low insertion loss and low harmonic generation paired with high isolation between RF ports. The switch is controlled via a GPIO interface. The on-chip controller allows power-supply voltages from 2.3V to 3.4V. The switch features direct-connect-to-battery functionality and DC-free RF ports. Unlike GaAs technology, external DC blocking capacitors at the RF Ports are only required if DC voltage is applied externally. The BGSX22G2A10 RF Switch is manufactured in Infineon's patented MOS technology, offering the performance of GaAs with the economy and integration of conventional CMOS including the inherent higher ESD robustness. The device has a very small size of only 1.15 x 1.55mm<sup>2</sup> and a maximum thickness of 0.6mm.

Block diagram and ordering information

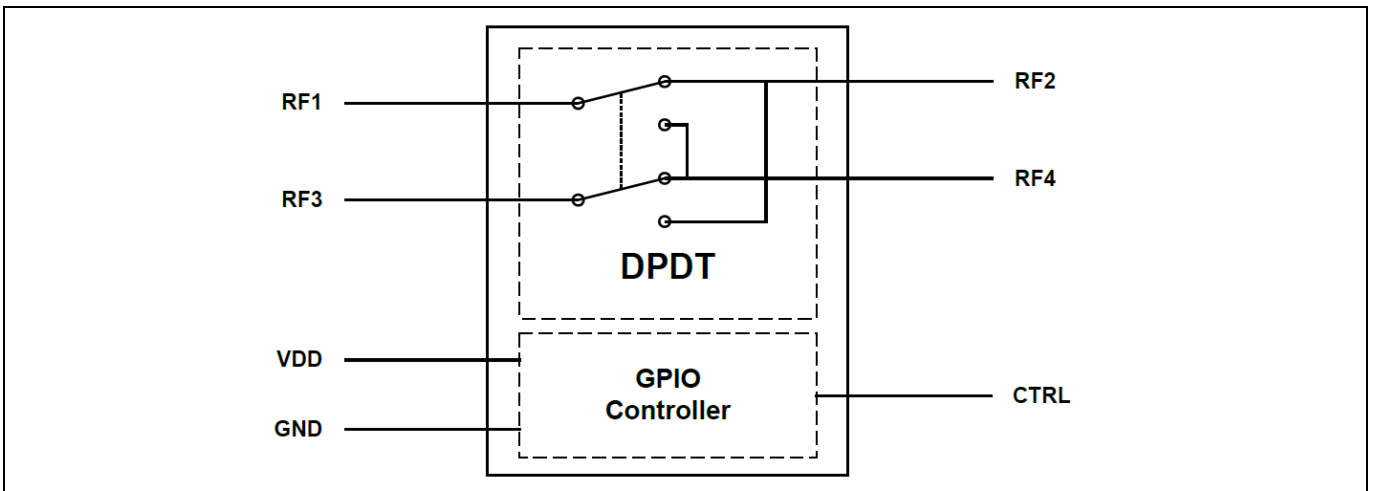


Figure 1 BGSX22G2A10 Block diagram

Table 1 Ordering Information

Type	Package	Marking
BGSX22G2A10	ATSLP-10-2	XB



WEEE Compliant Package



Halogen-Free PB Free



RoHS

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