

# BGS15AN16 BOARD

## **Description:**

BGS15AN16 RF MOS switch is specifically designed for WCDMA diversity applications. Any of the 5 ports can be used as termination of the diversity antenna handling up to 30 dBm. This SP5T offers low insertion loss and high robustness against interferer signals at the antenna port and low harmonic generation in termination mode.

An integrated LDO allows to connect Vdd directly to battery, hence no regulated supply voltage is required. A power down mode is implemented to avoid current drain when the device is not in use.

The on-chip controller integrates CMOS logic and level shifters, driven by control inputs from 1.5 V to Vdd. Unlike GaAs technology, external DC blocking capacitors at the RF Ports are only required if DC voltage is applied externally.

## **Summary of Features:**

- 5 high-linearity Rx ports with power handling capability of up to 30 dBm
- All ports fully symmetrical
- No external decoupling components required

- High ESD robustness
- Low harmonic generation
- Low insertion loss
- High port-to-port-isolation
- 0.1 to 3.0 GHz coverage
- Direct connection to battery
- Power down mode
- On-chip control logic supporting logic levels from 1.5 V to Vdd
- Lead and halogen free package (RoHS and WEEE compliant)

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Parametric	BGS15AN16 BOARD
Switch Type	SP5T
Control Interface	GPIO
Frequency Range	0.1 - 3.0
$P_{\max}$ <b>max</b>	30.0dBm
Insertion Loss (@1GHz)	0.34dB
Isolation (@1GHz)	35.0dB
Supply Voltage	2.85 - 4.7

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## Application Notes

Title	Size	Date	Version
AN259	629 KB	24 Jun 2011	01_00
AN230	526 KB	15 Feb 2011	01_00

# BGS15AN16 BOARD

<b>Sales Product Name</b>	BGS15AN16 BOARD
<b>OPN</b>	BGS15AN16BOARDTOBO1
<b>Product Status</b>	on request
<b>Order online</b>	
<b>Package Name</b>	--
<b>Completely lead free</b>	
<b>Halogen free</b>	
<b>RoHS compliant</b>	no
<b>Packing Size</b>	1
<b>Packing Type</b>	CONTAINER