

RF5219

Satellite Channel Stacking Switch (CSS)

PRODUCT DESCRIPTION

The RF5219 is the latest Entropic CSS solution, offering up to 40% lower power consumption from previous generations. The IC is designed to support up to 8 stacked channels on a single cable using a single ASTRA recommended Set Top Box (STB). The RF5219 is a pin compatible replacement of the previous generation product, the RF5212.

The RF5219 can be used in two Digital Broadcast Solutions (DBS) applications.

Optimized configuration is integration in the Low-Noise Block (LNB) converter that is part of an Outdoor Electronics Unit (ODU) (typically integrated with an antenna on the roof).

The second configuration is integration in an RF channel stacking Multi-Switch that is deployed anywhere (outdoor or indoor) between the satellite antenna on the roof and the indoor set top boxes.

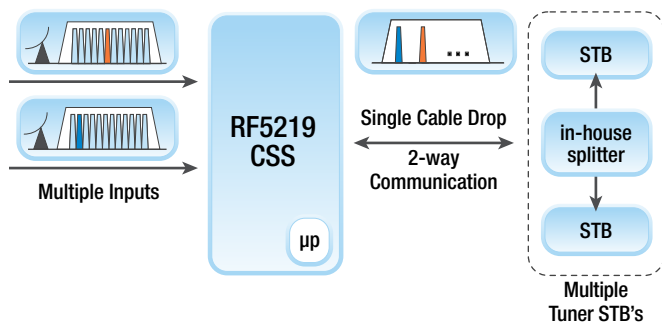
The RF5219's CSS technology is applicable to homes with multiple Set Top Box tuners (PVR Set Tops, or multiple Set Tops in a home) and to Multiple Dwelling Unit (MDU) applications. New total system solutions can be achieved by using the RF5219 with MDU redistribution technologies to support small apartment buildings.

APPLICATIONS

- DBS Low-noise Block Converters
- DBS Multi-Switches

TARGET BANDS

- Input range 950 MHz – 2150 MHz
- Output range 950 MHz – 2150 MHz



Ground-breaking new technology enables the delivery of up to 4 unique, individually selected channels down to a single cable drop.



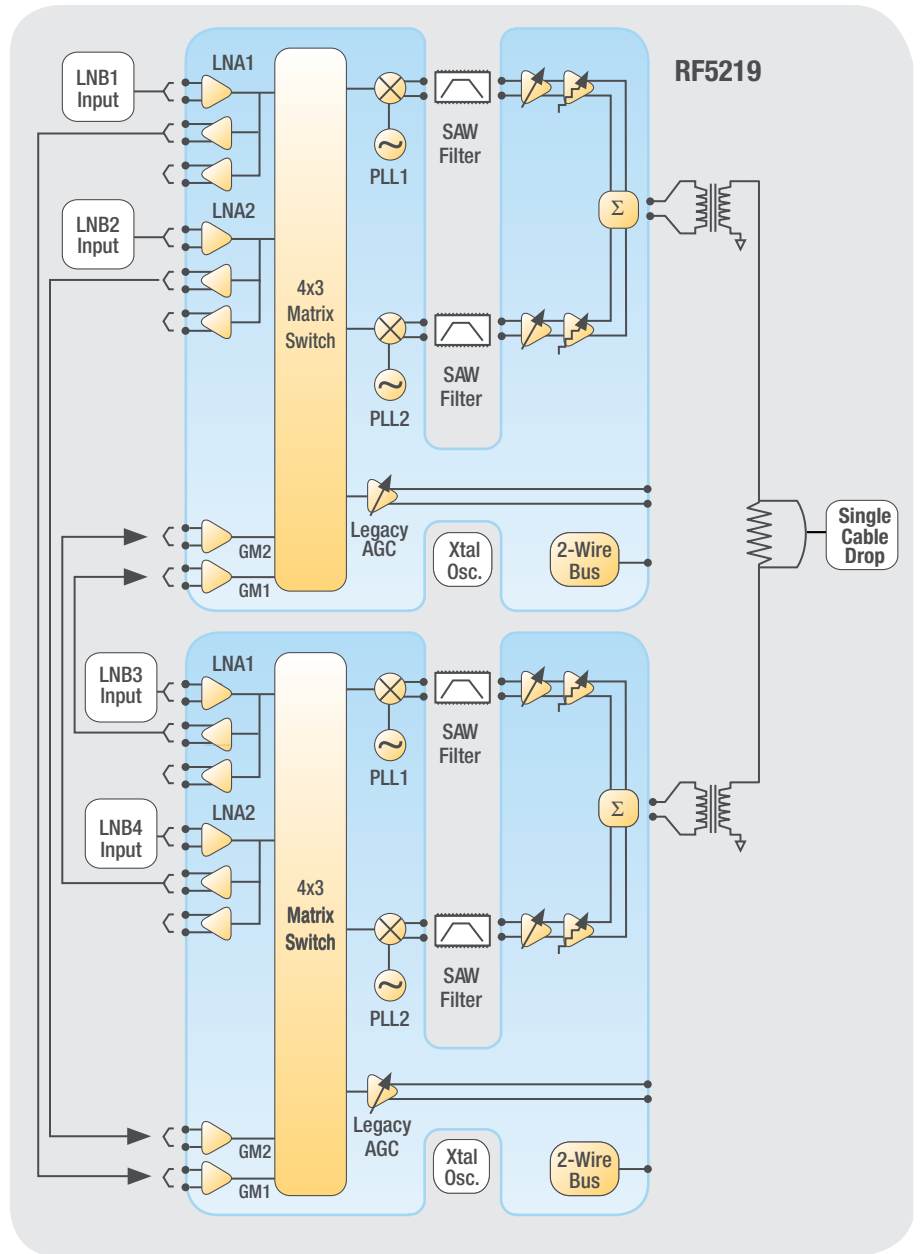
FEATURES

- 2 inputs and 2 channel outputs per IC
- Low power consumption
- Input range 950 MHz - 2150 MHz
 - Single dedicated legacy port
 - 4 Cascade outputs to support additional legacy ports
- Output range 950 MHz – 2150 MHz
- EZStack architecture supports up to 4 inputs and 8 output channels
- Low phase noise for supporting up to 16APSK modulation
- Low external component count
- High isolation ensures superior cross channel rejection
- Fully integrated LO, PLL and loop components
- Simple 2-wire control interface
- 8x8 mm² QFN 68-Pin package
- RoHS compliance

EVALUATION BOARD



FUNCTIONAL BLOCK DIAGRAM



6290 Sequence Drive
San Diego, CA 92121

Phone: 858.768.3600
Fax: 858.768.3601

ORDERING INFORMATION

Product	Part Number	EVK Description
RF5219	PCR-5219-0001	RF5219 CSS Evaluation Kit

© Entropic Communications, Inc. All rights reserved. Entropic Communications® and the stylized Entropic “curve” logo, c.LINK® and Enabling Connected Home Entertainment™ are either trademarks or registered trademarks of Entropic Communications, Inc. in the United States and/or other countries. All other trademarks are property of their respective holders. Contents subject to change without notice.