

RF5218

Satellite Channel Stacking Switch (CSS)

PRODUCT DESCRIPTION

The RF5218 is the latest Entropic CSS solution, offering up to 40% lower power consumption from previous generations. The IC is designed to support up to 12 stacked channels on a single cable using a single ASTRA recommended Set Top Box (STB). The RF5218 is a pin compatible replacement of the previous generation product, the RF5211.

The RF5218 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.

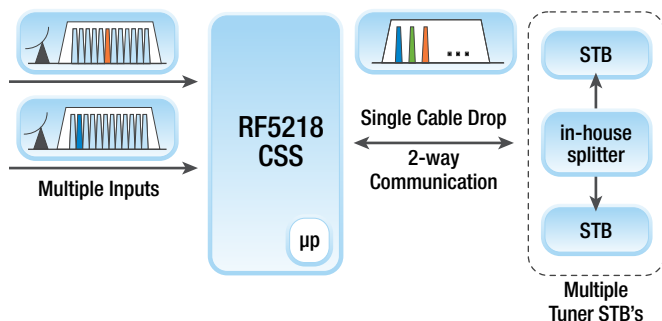
The RF5218's CSS technology is applicable to homes with multiple Set Top Box tuners (PVR Set Tops, or multiple Set Tops in a home) and to Multiple Dwelling Unit (MDU) applications. New total system solutions can be achieved by using the RF5218 with MDU redistribution technologies to support small to medium 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



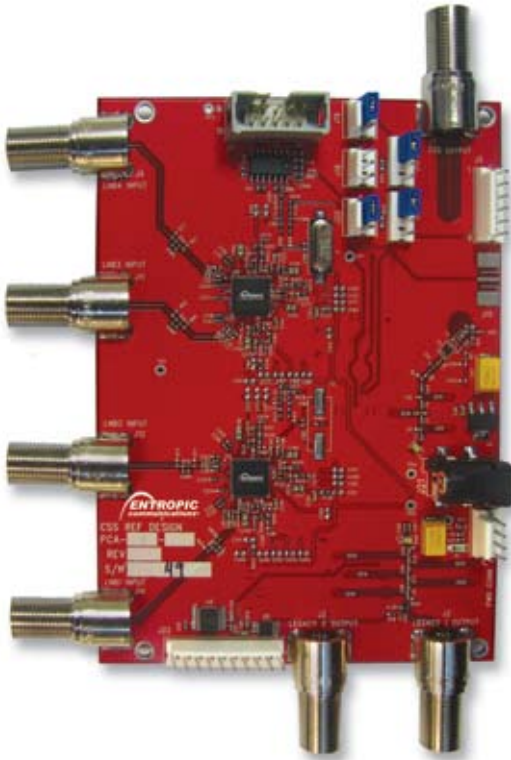
Ground-breaking new technology enables the delivery of up to 12 unique, individually selected channels down to a single cable drop.



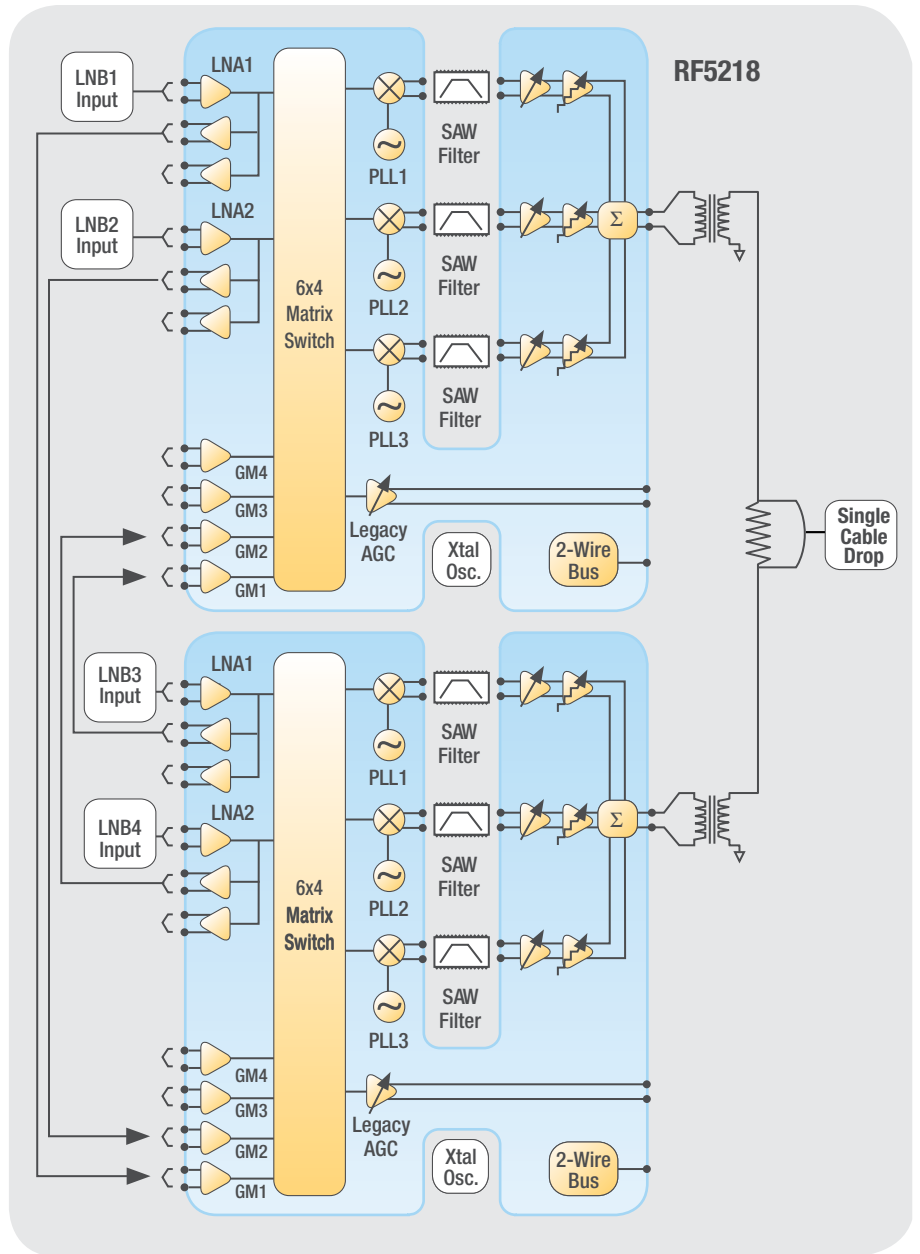
FEATURES

- 2 inputs and 3 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 12 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



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San Diego, CA 92121

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ORDERING INFORMATION

Product	Part Number	EVK Description
RF5218	PCR-5218-0001	RF5218 CSS Evaluation Kit

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