

RF5212

Satellite Channel Stacking Switch IC

PRODUCT DESCRIPTION

The RF5212 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.

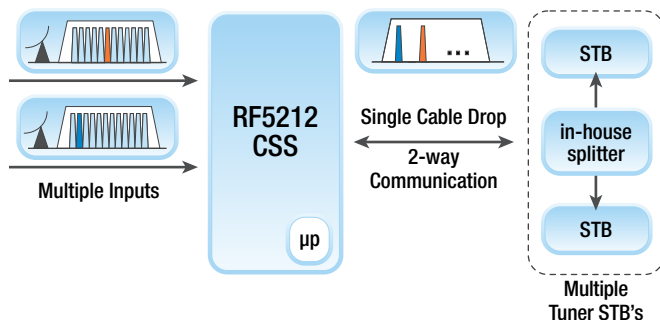
The RF5212's CSS technology is applicable to homes with multiple Set-top Box tuners (PVR Set Tops, or multiple Set Tops in a home) and to Multiple Dwelling Unit (MDU) applications. New total system solutions can be achieved by using the RF5212 with MDU redistribution technologies to support small apartment buildings.

APPLICATIONS

- DBS Low-Noise Block Converters
- DBS Multi-Switches

TARGET BANDS

- Input range 950 MHz – 2150 MHz
- Output range 950 MHz – 1850 MHz



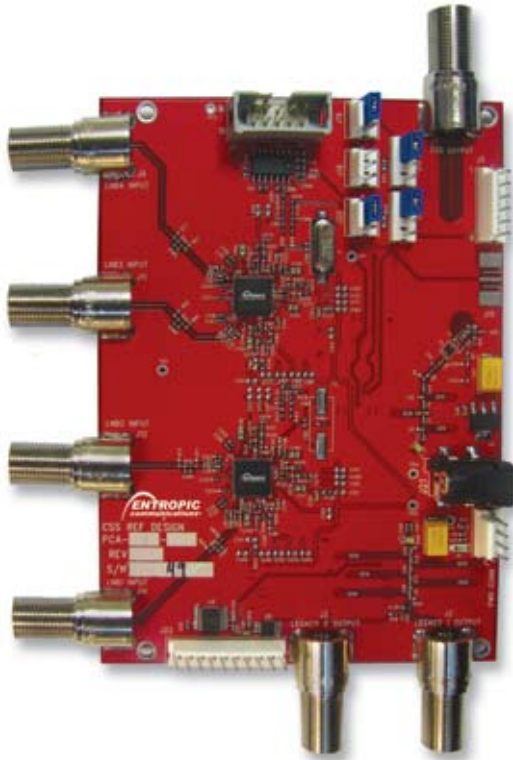
Ground-breaking new technology enables the delivery of up to 4 unique, individually selected channels down to a single cable drop.



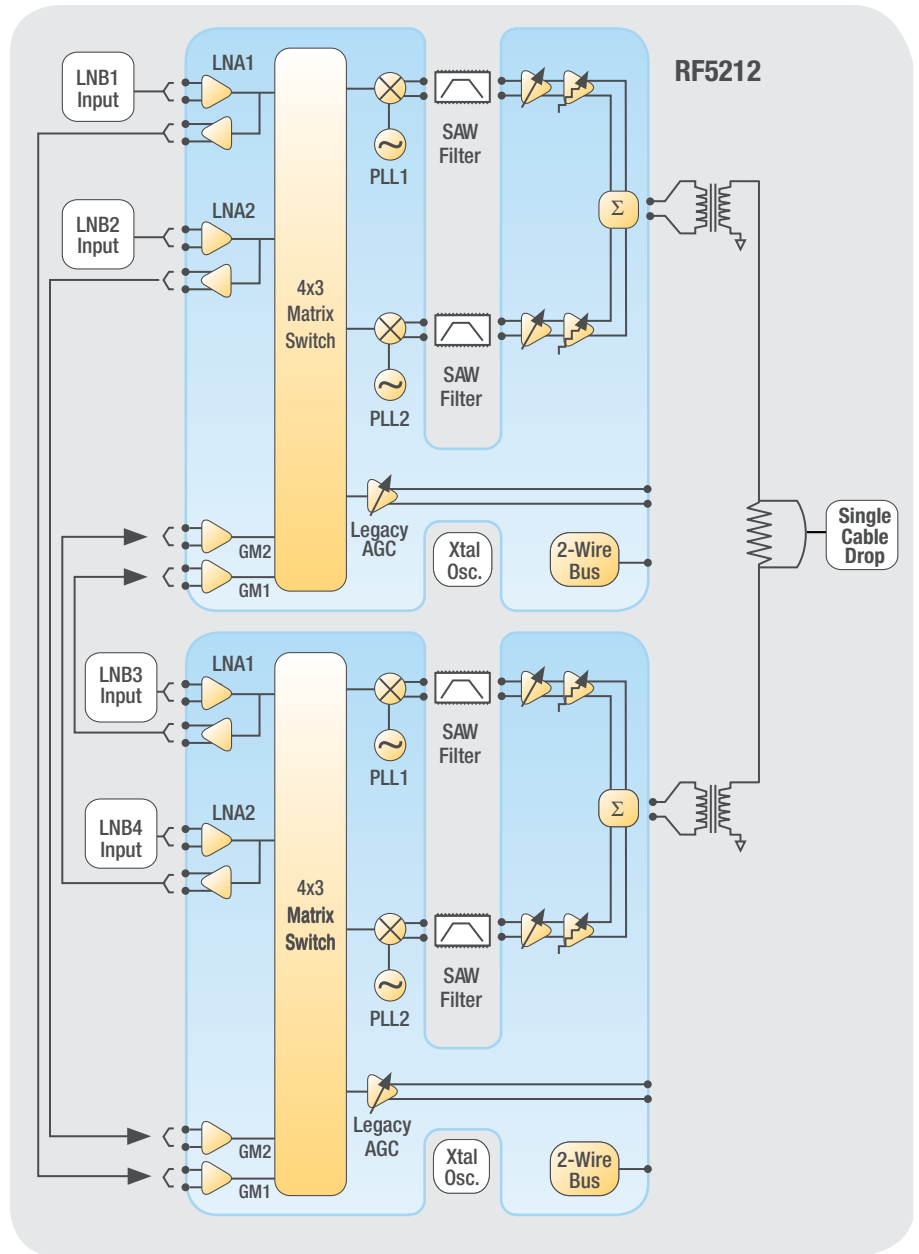
FEATURES

- 2 inputs and 2 channel outputs per IC
- Low power consumption
- Input range 950 MHz - 2150 MHz
 - Single dedicated legacy port
 - 2 Cascade outputs to support additional legacy ports
- Output range 950 MHz – 1850 MHz
- EZStack architecture supports up to 4 inputs and 4 output channels
- Low phase noise for 8PSK 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
RF5212	PCR-5212-0002	RF5212 CSS Evaluation Kit

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