



# ICASS1050-4T

## PRODUCT SUMMARY



## 1 – 5 GHz SP4T SWITCH

**ICASS1050-4T** is a low loss, high isolation 50  $\Omega$  SP4T absorptive switch fabricated in silicon technology. The switch is designed for 4G and 5G base station infrastructure systems supporting all major 3GPP bands from 1 to 5 GHz. The four RF ports have a control interface compatible with 1.8 V or 3.3 V CMOS logic. The switch controller of ICASS1050-4T is specially designed to reduce the phase and amplitude variation during hot switching on the signal paths.

### Key Features

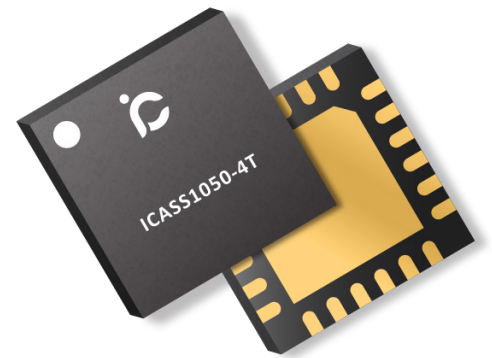
- Frequency range: 1 – 5 GHz
- Power handling (CW signal):
  - 33 dBm on selective port
  - 27 dBm on terminated port
- Low insertion loss: < 0.7 dB
- Excellent return loss: > 20 dB
- High isolation: > 40 dB (RFx-RFy and RFx-RFx)
- Fast switching time: < 600 ns
- Low drain current:  $I_{DD} < 100 \mu A$
- VDD supply voltage range: 3.0 V to 6.0 V
- 1.8 V or 3.3 V compatible control logic
- Package size: 4 x 4 x 0.75 mm<sup>3</sup>

### Typical Applications

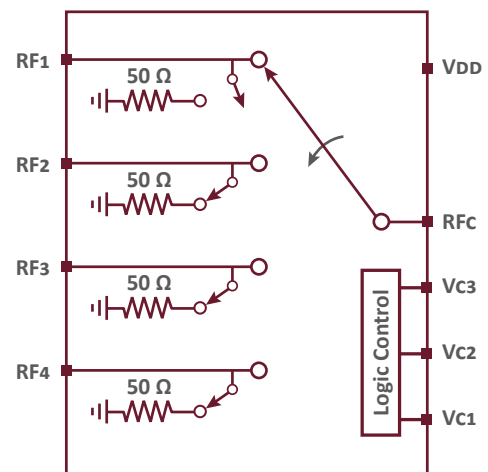
- Support major sub-6 GHz 3GPP bands
- 4G LTE and 5G NR FR1 infrastructure
- High performance communication systems
- Test equipment
- Digital pre-distortion feedback path

### Ordering Guide

Part Name	Description
ICASS1050-4T	1 – 5 GHz SP4T Switch
ICASS1050-4T-EVB	Evaluation Board for ICASS1050-4T



24 Pad 4 x 4 mm<sup>2</sup> SMT Package



Functional Block Diagram

### 5G NR FR1 Switch Family

Product Name	Description
ICASS1050-5T	1 – 5 GHz, SP5T
ICASS1050-4T	1 – 5 GHz, SP4T

REV 1.0

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**iCana Ltd.**

5F, No. 28-2, Baogao Road, Xindian District,  
New Taipei City 231, Taiwan (ROC)

[icana-rf.com](http://icana-rf.com)

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