# Features, applications and specifications

The main applications, a summary of features, and the main specifications of the module are provided below.

## Main applications

- 1. Remote keyless entry systems & passive entry systems
- 2. Short-range wireless communications transmitters
- 3. Garage door openers
- 4. RFID tag transmitters

### **Summary of features**

- 1. Fractional-N PLL\*
- 2. Output power: Programmable in 128 steps from -15 dBm to +11 dBm
- 3. Modulation methods: Amplitude shift keying (ASK), on-off keying (OOK), and frequency shift keying (FSK)
- 4. Soft-ASK and/or Soft-FSK shaping to limit the transmission band
- 5. 3-wire or 4-wire SPI interface used to control operations
- 6. Programmable clock output via CKOUT

# **Main specifications**

Model No.	SR3225SAA
Carrier frequency bands	300 MHz to 465 MHz and 600 MHz to 930 MHz
Power supply voltage	1.8 V to 3.6 V
Operating temperature range	-40°C to +85°C
Power supply current	20 nA typ. (Powerdown mode)
	15 mA typ. (315 MHz in Transmitter-Active mode, at 10 dBm output)
Internal crystal frequency tolerance	±2 ppm (excluding ageing)
Internal crystal frequency-temperature characteristics	± 20 ppm
Nominal output power	+11 dBm, typ. (315 MHz, max. output setting) -15 dBm, typ. (315 MHz, min. output setting)
Dimensions	3225: 3.2 x 2.5 x 1.0 mm, typ.

#### \* Fractional-N PLL:

A fractional-N phase locked loop is a circuit that generates a desired output frequency based on a clock signal of a certain frequency.