

**Theoretically Calculated Typical Power Consumption of the nRF9151 System-On-Module  
@ 25°C, battery power only @ 3.7V**

Description	Typical Supply Current	Notes
nRF9151 SiP	18 $\mu\text{A}$ @ 3.7V	MCU on IDLE, modem off, wake on GPIOTE input (event mode), Low power System ON mode
128Mbit SPI NOR Flash	10 $\mu\text{A}$ @ 3.0V	Standby
RTC	0.22 $\mu\text{A}$ @ 3.0V	CLKOUT disabled, interface inactive; f <sub>SCL</sub> = 0 Hz
LNA (Low Noise RF Amplifier)	0.1 $\mu\text{A}$ @ 3.0V	Standby
UART buffer	1 $\mu\text{A}$ @ 3.0V	Steady state, no load, maximum value
PMIC	2 $\mu\text{A}$ @ 3.7V	Only BUCK2 @3.0V output enabled, MODE=AUTO, $\eta = 90\%$

<b>Total Typical Current Consumption in Idle mode, <math>\mu\text{A}</math>:</b>	<b>29</b>
--	-----------

**Note:** Nordic Semiconductor Product Specifications provide only typical values for current consumptions.