

## 4.2 Operating conditions



All specifications are at an ambient temperature of 25°C. Extreme operating temperatures can significantly impact specification values. Applications operating near the temperature limits should be tested to ensure the specification.

Unit

Parameter	Symbol	Min	Typical	Max	s	Condition
Power supply voltage	VCC	2.7	3.0	3.6	V	
Supply voltage USB	VDDUSB	3.0	3.3	3.6	V	
Backup battery voltage	V_BCKP	1.4		3.6	V	
Backup battery current	I_BCKP		15		μΑ	$V_BCKP = 1.8 V, VCC = 0 V$
SW backup current	I_SWBCKP		30		μΑ	VCC = 3 V
Input pin voltage range	Vin	0		VCC	V	
Digital IO Pin Low level input voltage	Vil	0		0.2*VCC	V	
Digital IO Pin High level input voltage	Vih	0.7*VCC		VCC	V	
Digital IO Pin Low level output voltage	Vol			0.4	V	lol = 4mA
Digital IO Pin High level output voltage	Voh	VCC-0.4			V	loh = 4mA
Pull-up resistor for RESET_N (internal)	Rpu		11		kW	
USB_DM, USB_DP	VinU	Compatible with USB with 27 $\Omega$ series resistance				
VCC_RF voltage	VCC_RF		VCC-0.1		V	
VCC_RF output current	ICC_RF			50	mA	
Receiver Chain Noise Figure 13	NFtot		2.0		dB	
Operating temperature	Topr	-40		85	°C	

## **Table 10: Operating conditions**



Operation beyond the specified operating conditions can affect device reliability.