

## GPIO + UART specs – Location beacon

### Absolute maximum ratings <sup>(1)</sup>

Parameter		Min.	Max.	Unit	
Pin voltage <sup>(2)</sup>	V <sub>CC IN</sub>	-0.3	3.9	V	
	GPIO1, GPIO2	Without auxiliary supply voltage on V <sub>CC IN</sub> pin	-0.3	2.3V	V
		With auxiliary supply voltage on V <sub>CC IN</sub> pin	-0.3	V <sub>CC IN</sub> +0.3V	
Storage temperature range	with batteries	-40	+70	°C	
	without batteries	-40	+85	°C	

(1) Exceeding any of the limits listed here may result in permanent damage to the device

(2) All voltage values are with respect to network ground terminal GND

### Recommended Operating Conditions

Parameter		Min.	Typ.	Max.	Unit	
V <sub>CC IN</sub>	Auxiliary supply voltage V <sub>IN</sub>	2.1	3.3	3.6	V	
V <sub>CC</sub>	Device internal supply voltage	Without auxiliary supply voltage on V <sub>CC IN</sub> pin	1.95	2.0	2.05	V
		With auxiliary supply voltage on V <sub>CC IN</sub> pin	1.8	3.0	3.3	
T <sub>A</sub>	Operating temperature range	with batteries	-10		+60	°C
		without batteries (external power supply)	-25		+75	°C

### Electrical Characteristics

T<sub>A</sub> = -40°C to 85°C typical values are at T<sub>A</sub> = 25°C (unless otherwise noted)

Parameter		Min.	Typ.	Max.	Unit
<b>Power</b>					
I <sub>IN</sub>	Device input current (from V <sub>CC IN</sub> pin)			50	mA
<b>General Purpose I/O (GPIO)</b>					
V <sub>IH</sub>	Input high voltage	0.7 V <sub>CC</sub>		V <sub>CC</sub>	V
V <sub>IL</sub>	Input low voltage	0		0.3 V <sub>CC</sub>	V
V <sub>OH</sub>	Output high voltage (high-drive, 5 mA)	V <sub>CC</sub> - 0.3		V <sub>CC</sub>	V
V <sub>OL</sub>	Output low voltage (high-drive, 5 mA)	0		0.3	V
R <sub>PU</sub>	Pull-up resistance	11	13	16	kΩ
R <sub>PD</sub>	Pull-down resistance	11	13	16	kΩ
R <sub>SER</sub>	Series resistance		100		Ω
<b>Universal Asynchronous Receiver/Transmitter (UART)</b>					
f <sub>UART</sub>	Baud rate for UART		115 200		bps
Parity		None			
Flow Control		None			