

Quantitative Specifications - Rev.J

Metric No.	Metric	Units	Value	Tolerance (+/-)
Analog Board				
1	Analog Board Gain	V/V	4500	1000
2	Analog Board CMRR	dB	>= 110	N/A
3	Analog Board Size	l x w (in ²)	6x6	N/A
4	Analog Board Power Consumption	mW	150	10
5	Operating Voltage	V	5	0.1
6	Battery Voltage	V	5.6	0.4
7	Weight	g	300	200
8	EEG Input Signal Voltage Range	μV	1 - 1000	N/A
9	EEG Input Frequency Range	Hz	0.16-30	N/A
10	Amplifier Input Impedance	MΩ	>= 100	N/A
11	Low Pass Filter Cutoff Frequency (3rd Order Active Bessel Filter)	Hz	60	N/A
12	High Pass Filter Cutoff Frequency (2nd Order Passive RC Filter)	Hz	0.16	N/A
13	Operating Temperature	° Celcius	21	25
Digital/Wireless Board				
14	Power Consumption	mW	69	5
15	Wireless Range (Indoor)	m	20	2
16	Wireless Transmission Reliability	% Packet Loss	0.1	N/A
17	Resolution of ADC	Bits	12	N/A
18	Dynamic Range of ADC	dB	60	N/A
19	Sample Hold Time	Clock Cycles	12	N/A
20	Sampling Rate	Hz	256	N/A
21	Bandwidth Per User	Bits / s	60	25
22	Maximum Number of Users Per System	Devices	3	N/A
23	Reading Buffer Memory*	Bytes	128	N/A

*Maximum packet size supported by 802.15.4 is 128 bytes