

The ActiveElectrode ERP/EEG System

Now you can setup 256 channels* in less then 45 Minutes!



Step 1

...at a price you can afford!



Step 2



Step 3



24-bit A/D – 256 channels – Battery-Powered Portable System Plus Optical to USB2 Converter



For more information contact us at: info@neurospec.com



Research Neurosciences

Specifications

Sample-rate: (Is adjustable by user)	2048 Hz	4096 Hz	8192 Hz	16,384 Hz	
Max. number of channels @ selected sample rate:	256	128	64	32	
Bandwidth (-3dB):	DC - 400 Hz	DC - 800 Hz	DC - 1600	DC - 3200 Hz	
Low-pass response:	5 th order sinc digital filter				
High-pass response:	Fully DC coupled				
Digitalization:	24 bit, 4 th order Delta-Sigma modulator with 64x over sampling, one converter per channel				
Sampling skew:	< 10 ps				
Absolute sample rate accuracy (over temp range: 0-70 C):	0.1 Hz	0.2 Hz	0.4 Hz	0.8 Hz	
Relative sample rate accuracy (jitter):	< 200 ps	< 200 ps			
Quantization-resolution:	LSB = 31.25 nV, guaranteed no missing codes				
Gain accuracy:	1 %				
Anti aliasing filter:	fixed first order analog filter, -3dB at 3.6 kHz				
Total input noise (Z _e < 10 kOhm):, full bandwidth:		1.0 uVRMS (6 uVpk-pk)		2.0 uVRMS (12 uVpk-pk)	
1/f noise (Ze < 1 MOhm):	1 uVpk-pk @ 0.110Hz				
Amplifier current noise:	< 30 fArms				
Input bias current:	< 10 pA per channel				
Input impedance Active Electrode:	300 MOhm @ 50 Hz (10 ¹² Ohm // 11 pF)				
DC offset:	< 0.5 mV				
DC drift:	< 0.5 uV per	< 0.5 uV per degree Celsius			
Input range:	+262 mV to	+262 mV to -262 mV			
Distortion:	< 0.1 %				
Channel separation:	> 100 dB				
Common Mode Rejection Ratio:	> 80 dB @ 5	> 80 dB @ 50 Hz			
Isolation Mode Rejection Ratio:	> 160 dB @ 50 Hz				
Power Consumption:	4 Watt @ 256 channels				
Battery capacity, standard battery:	25 Watt-hour, 3 cell sealed lead-acid				
Battery life on standard battery:	> 5 hours @ 256 channels				
Battery charge time (with external fast charger):	< 3.5 hours for a 100% charge				
Leakage current, normal operation:	< 1 uA rms.				
Leakage current, single fault:	< 50 uArms				
Trigger inputs:	16 inputs on	16 inputs on optical receiver (isolated from subject			
Trigger outputs:	15 outputs o	15 outputs on optical receiver (isolated from subject			
PC interface:	USB2.0	USB2.0			
Size of front-end, including battery-box (H x W x D):	120 x 150 x	120 x 150 x 190 mm			
Weight of front-end, including battery-box:	1.1 kg				
Environment:	Humidity: 30	Indoor use: Temperature: +10°C to +40°C Humidity: 30 to 75% Pressure: 700 hPa to 1060 hPa			
Warranty:	3 years (1 ye	3 years (1 year on electrodes and batteries)			



Note that BioSemi Products are only used in Research and are not designed for medical use in diagnosis or treatment of disease!

PLEASE SEND YOUR ENQUIRE FOR OFFER TO:



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