

CCi-MOBILE Research Interface for Cochlear Implant and Hearing-Aid Research

MAP Operating Specifications

Table 1. Maximum Stimulation Rate Supported by CCi-MOBILE for Corresponding Electrodes

No. Electrodes	Total Stimulation Rate (pps-pch)	Adjusted Total Stim Rate (Hz)
1	14400.00	8000
2	7200.00	5333
3	4800.00	4000
4	3600.00	3200
5	2880.00	2667
6	2400.00	2286
7	2057.14	2000
8	1800.00	1778
9	1600.00	1600
10	1440.00	1333
11	1309.09	1231
12	1200.00	1143
13	1107.69	1067
14	1028.57	1000
15	960.00	941
16	900.00	889
17	847.06	842
18	800.00	800
19	757.89	727
20	720.00	696
21	685.71	667
22	654.55	640

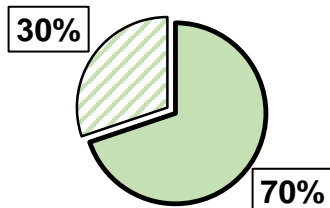
Table 2. Operating Ranges of User-Defined Variables

PARAMETERS	MIN	MAX	DEFAULT
USER DEFINED INPUT PARAMETERS			
Number of Electrodes	1	22	8
Pulse Width (Hz)	25	400	25
Total Stimulation Rate (Hz)	125	14400	1000
Inter-Pulse-Duration (sec)	0.000011	n/a	0.000067
Overlap/Block Shift (samples)	2	128	16
Analysis Rate (Hz)	125	8000	1000
Pulses per Frame per Channel	1	115	8
Data Bytes per Frame (bytes)	1	115	64
FIXED PARAMETERS			
Inter-Pulse-Gap (sec)	0.000008		
Sampling Frequency (samples/sec)	16000		
Window/Frame Length (samples)	0.008		

Table 3. User-Defined MAP Supported/Non-Supported Configurations

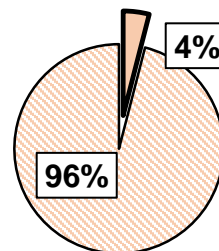
Description	Combinations	
Total Possible User-Specified MAP Combinations	Total	242,880
Total CCi-MOBILE Supported Configurations	Valid	169,625
CCi-MOBILE Non-Realizable Configurations	Invalid	73,255
CCi-MOBILE User-Accepted Combinations	Accepted	6,807
CCi-MOBILE Configuration Adjusted Combinations	Adjusted	162,818

Valid/Invalid Configurations



■ Valid ■ Invalid

Accepted/Adjusted Configurations



■ Accepted ■ Adjusted