Datasheet

Product Name: **wave**guard net, 256 EEG channels, shielded, equidistant, HD-C68

REF NA-281.s1

Product Version: 1.1

waveguard™net CE

Manufacturer:

eemagine Medical Imaging Solutions
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OQC passed

for part(s) with SERIAL / LOT number as indicated on product / package

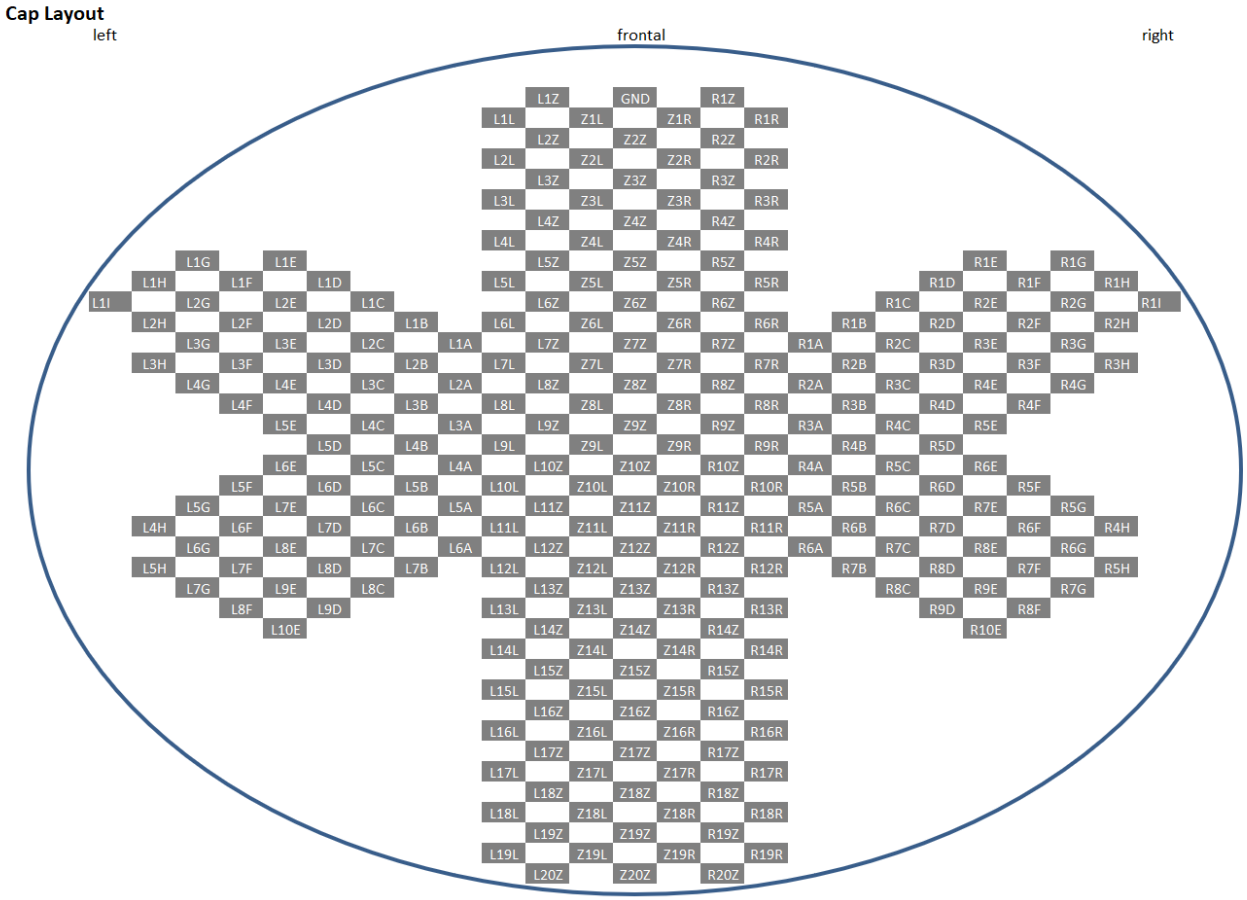
Classification: CE class I (EU)

Compatibility: EE-2xx **eego** amplifiers

Description: **wave**guard net, 256 channels, equidistant layout, plus REF at Z12Z and GND at Z1Z, sintered Ag rings, 8x HD-C68pin connector, shielded cable 1.8m, including ferrite core.

Available sizes: s1: 09 = Small, 10 = Medium, 11 = Large
(if applicable)

Specifications:



Pinning Specifications:

Connector A1

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	GND/Z1Z	34	68
1	Z1L	33	67
2	Z2L	32	66
3	Z3L	31	65
4	Z4L	30	64
5	Z5L	29	63
6	Z6L	28	62
7	Z7L	27	61
8	Z8L	26	60
9	Z9L	25	59
10	Z10L	24	58
11	Z11L	23	57
12	Z12L	22	56
13	Z13L	21	55
14	Z14L	20	54
15	Z15L	19	53
16	Z16L	18	52
17	Z17L	17	51
18	Z18L	16	50
19	Z19L	15	49
20	L1Z	14	48
21	L2Z	13	47
22	L3Z	12	46
23	L4Z	11	45
24	L5Z	10	44
25	L6Z	9	43
26	L7Z	8	42
27	L8Z	7	41
28	L9Z	6	40
29	L10Z	5	39
30	L11Z	4	38
31	L12Z	3	37
32	L13Z	2	36
–	Z12Z/REF	1	35

Connector A2

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	–	34	68
33	L14Z	33	67
34	L15Z	32	66
35	L16Z	31	65
36	L17Z	30	64
37	L18Z	29	63
38	L19Z	28	62
39	L20Z	27	61
40	L1L	26	60
41	L2L	25	59
42	L3L	24	58
43	L4L	23	57
44	L5L	22	56
45	L6L	21	55
46	L7L	20	54
47	L8L	19	53
48	L9L	18	52
49	L10L	17	51
50	L11L	16	50
51	L12L	15	49
52	L13L	14	48
53	L14L	13	47
54	L15L	12	46
55	L16L	11	45
56	L17L	10	44
57	L18L	9	43
58	L19L	8	42
59	L1A	7	41
60	L2A	6	40
61	L3A	5	39
62	L4A	4	38
63	L5A	3	37
64	L6A	2	36
–	–	1	35

Pinning Specifications:

Connector B1

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	GND	34	68
65	L1B	33	67
66	L2B	32	66
67	L3B	31	65
68	L4B	30	64
69	L5B	29	63
70	L6B	28	62
71	L7B	27	61
72	L1C	26	60
73	L2C	25	59
74	L3C	24	58
75	L4C	23	57
76	L5C	22	56
77	L6C	21	55
78	L7C	20	54
79	L8C	19	53
80	L1D	18	52
81	L2D	17	51
82	L3D	16	50
83	L4D	15	49
84	L5D	14	48
85	L6D	13	47
86	L7D	12	46
87	L8D	11	45
88	L9D	10	44
89	L1E	9	43
90	L2E	8	42
91	L3E	7	41
92	L4E	6	40
93	L5E	5	39
94	L6E	4	38
95	L7E	3	37
96	L8E	2	36
–	Z12Z	1	35

Connector B2

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	–	34	68
97	L9E	33	67
98	L10E	32	66
99	L1F	31	65
100	L2F	30	64
101	L3F	29	63
102	L4F	28	62
103	L5F	27	61
104	L6F	26	60
105	L7F	25	59
106	L8F	24	58
107	L1G	23	57
108	L2G	22	56
109	L3G	21	55
110	L4G	20	54
111	L5G	19	53
112	L6G	18	52
113	L7G	17	51
114	L1H	16	50
115	L2H	15	49
116	L3H	14	48
117	L4H	13	47
118	L5H	12	46
119	L1I	11	45
120	Z2Z	10	44
121	Z3Z	9	43
122	Z4Z	8	42
123	Z5Z	7	41
124	Z6Z	6	40
125	Z7Z	5	39
126	Z8Z	4	38
127	Z9Z	3	37
128	Z10Z	2	36
–	–	1	35

Pinning Specifications:

Connector C1

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	GND	34	68
129	Z1R	33	67
130	Z2R	32	66
131	Z3R	31	65
132	Z4R	30	64
133	Z5R	29	63
134	Z6R	28	62
135	Z7R	27	61
136	Z8R	26	60
137	Z9R	25	59
138	Z10R	24	58
139	Z11R	23	57
140	Z12R	22	56
141	Z13R	21	55
142	Z14R	20	54
143	Z15R	19	53
144	Z16R	18	52
145	Z17R	17	51
146	Z18R	16	50
147	Z19R	15	49
148	R1Z	14	48
149	R2Z	13	47
150	R3Z	12	46
151	R4Z	11	45
152	R5Z	10	44
153	R6Z	9	43
154	R7Z	8	42
155	R8Z	7	41
156	R9Z	6	40
157	R10Z	5	39
158	R11Z	4	38
159	R12Z	3	37
160	R13Z	2	36
–	Z12Z	1	35

Connector C2

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	–	34	68
161	R14Z	33	67
162	R15Z	32	66
163	R16Z	31	65
164	R17Z	30	64
165	R18Z	29	63
166	R19Z	28	62
167	R20Z	27	61
168	R1R	26	60
169	R2R	25	59
170	R3R	24	58
171	R4R	23	57
172	R5R	22	56
173	R6R	21	55
174	R7R	20	54
175	R8R	19	53
176	R9R	18	52
177	R10R	17	51
178	R11R	16	50
179	R12R	15	49
180	R13R	14	48
181	R14R	13	47
182	R15R	12	46
183	R16R	11	45
184	R17R	10	44
185	R18R	9	43
186	R19R	8	42
187	R1A	7	41
188	R2A	6	40
189	R3A	5	39
190	R4A	4	38
191	R5A	3	37
192	R6A	2	36
–	–	1	35

Pinning Specifications:

Connector D1

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	GND	34	68
193	R1B	33	67
194	R2B	32	66
195	R3B	31	65
196	R4B	30	64
197	R5B	29	63
198	R6B	28	62
199	R7B	27	61
200	R1C	26	60
201	R2C	25	59
202	R3C	24	58
203	R4C	23	57
204	R5C	22	56
205	R6C	21	55
206	R7C	20	54
207	R8C	19	53
208	R1D	18	52
209	R2D	17	51
210	R3D	16	50
211	R4D	15	49
212	R5D	14	48
213	R6D	13	47
214	R7D	12	46
215	R8D	11	45
216	R9D	10	44
217	R1E	9	43
218	R2E	8	42
219	R3E	7	41
220	R4E	6	40
221	R5E	5	39
222	R6E	4	38
223	R7E	3	37
224	R8E	2	36
–	Z12Z	1	35

Connector D2

Pinning Scheme			
Channel Number	***Electrode***	***Pin numbers***	
–	–	34	68
225	R9E	33	67
226	R10E	32	66
227	R1F	31	65
228	R2F	30	64
229	R3F	29	63
230	R4F	28	62
231	R5F	27	61
232	R6F	26	60
233	R7F	25	59
234	R8F	24	58
235	R1G	23	57
236	R2G	22	56
237	R3G	21	55
238	R4G	20	54
239	R5G	19	53
240	R6G	18	52
241	R7G	17	51
242	R1H	16	50
243	R2H	15	49
244	R3H	14	48
245	R4H	13	47
246	R5H	12	46
247	R1I	11	45
248	Z11Z	10	44
249	Z13Z	9	43
250	Z14Z	8	42
251	Z15Z	7	41
252	Z16Z	6	40
253	Z17Z	5	39
254	Z18Z	4	38
255	Z19Z	3	37
256	Z20Z	2	36
–	–	1	35

Other Components:

	Connector
Connector type	HD-C68pin
Connector gender	Male
	Cable
Cable type:	shielded
Cable length:	1.8 m

Connection to compatible products: Connect with cascaded EE-2xx amplifiers by connecting connector A1 with EEG-IN 1 of amplifier A, connector A2 with EEG-IN 2 of amplifier A, connector B1 with EEG-IN 1 of amplifier B, connector B2 with EEG-IN 2 of amplifier B, connector C1 with EEG-IN 1 of amplifier C, connector C2 with EEG-IN 2 of amplifier C, connector D1 with EEG-IN 1 of amplifier D, and connector D2 with EEG-IN 2 of amplifier D.

Warning:

Proper use of the **NA-281** depends on careful reading of all instructions including the **wave**guard net descriptions and labels that come with or on the devices. Inaccurate measurements may be caused by incorrect use of the device. Non-compliance with warnings and safety regulations may result in severe personal injury and total loss of equipment.