

**ASHLY ne24.24M / 24.24M : Output Channel Message**

<b>BYTE #</b>	<b>VALUE OR TYPE</b>	<b>DESCRIPTION OR RANGE</b>
1	\$F0	Start Byte (\$ denotes hexadecimal value)
2	0	Header byte 1
3	1	Header byte 2
4	\$2A	Header byte 3
5	6	Header byte 4 (24.24M model number)
6	device id - 1	Device id minus one. The device id is displayed on front panel when Preset # LED is off. ***For ne24.24M Byte #6 is always 0
7	message type	1 for <b>Data Response</b> , 8 for <b>Data Download</b>
8	2	sub type: output channel data
9	channel number	0-19 = output channels 1-20
10	output name character 1	ascii characters "(blank space)" through "z", hexadecimal values 20-\$7A
11	output name character 2	
12	output name character 3	
13	output name character 4	
14	output name character 5	
15	output name character 6	
16	output name character 7	
17	output name character 8	
18	output name character 9	
19	output name character 10	
20	output name character 11	
21	output name character 12	
22	output name character 13	
23	output name character 14	
24	output name character 15	
25	output name character 16	
26	output name character 17	
27	output name character 18	
28	output name character 19	
29	output name character 20	
30	mute status	0 = not muted; 1-127 = muted
31	eq status	0 = bypassed; 1-127 = active
32	mix status (routing enable) 1-7	x-7-6-5-4-3-2-1, bit 0 = mix 1 status (source: input 1), where 0 = not routed, 1 = routed
33	mix status (routing enable) 8-14	x-14-13-12-11-10-9-8, bit 0 = mix 8 status (source: input 8), ...
34	mix status (routing enable) 15-20	x-x-20-19-18-17-16-15, ... bit 5 = mix 20 status (source:input 20)
35	mix 1 (source: input 1)	bits 5-0 = Level: 0 = -INF, 1-63 = -50 to +12 dB; bit 6 = mute status (1=muted)
36	mix 2 (source: input 2)	
37	mix 3 (source: input 3)	
38	mix 4 (source: input 4)	
39	mix 5 (source: input 5)	
40	mix 6 (source: input 6)	
41	mix 7 (source: input 7)	
42	mix 8 (source: input 8)	
43	mix 9 (source: input 9)	
44	mix 10 (source: input 10)	
45	mix 11 (source: input 11)	

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46	mix 12 (source: input 12)	
47	mix 13 (source: input 13)	
48	mix 14 (source: input 14)	
49	mix 15 (source: input 15)	
50	mix 16 (source: input 16)	
51	mix 17 (source: input 17)	
52	mix 18 (source: input 18)	
53	mix 19 (source: input 19)	
54	mix 20 (source: input 20)	
55	hpf frequency	bit 14; (x-x-x-x-x-x-14); Frequency(Hz) = 15-bit value, range:20-20K
56	hpf frequency	bits 13-7; (x-13-12-11-10-9-8-7);
57	hpf frequency	bits 6-0; (x-6-5-4-3-2-1-0); Most significant bit of each byte must be zero
58	type	0-7 = Bwrth2, Bes2, Lnk2, Bwrth/Lnk3, Bes3, Bwrth4, Bes4, Lnk4
59	lpf frequency	
60	lpf frequency	
61	lpf frequency	
62	type	
63	delay byte 1	bits 20-14; (x-20-19-18-17-16-15-14) Delay in seconds = [21-bit value]/48,000
64	delay byte 2	bits 13-7; (x-13-12-11-10-9-8-7) Most significant bit of each byte must be zero
65	delay byte 3	bits 6-0; (x-6-5-4-3-2-1-0)
66	frequency	<b>EQ Filter 1</b> frequency bit 14; (x-x-x-x-x-x-14)
67	frequency	frequency bits 13-7; (x-13-12-11-10-9-8-7)
68	frequency	bits 6-0; (x-6-5-4-3-2-1-0); Frequency(Hz) = 15-bit value, PEQ range: 20-20K
69	Q	refer to Q table
70	level	bits 13-7; 7792 to 8312 = -40dB to +12dB (0.1dB steps)
71	level	bits 6-0; [8192 = 0dB]
72	status & type	bit 6: 0 = bypass, 1 = active; lower nibble value: 0-5 = PEQ, LS1, LS2, HS1, HS2, Allpass
73	frequency	<b>EQ Filter 2</b>
74	frequency	
75	frequency	
76	Q	
77	level	
78	level	
79	status & type	
80	frequency	<b>EQ Filter 3</b>
81	frequency	
82	frequency	
83	Q	
84	level	
85	level	
86	status & type	
87	frequency	<b>EQ Filter 4</b>
88	frequency	
89	frequency	
90	Q	
91	level	

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92	level	
93	status & type	
94	frequency	<b>EQ Filter 5</b>
95	frequency	
96	frequency	
97	Q	
98	level	
99	level	
100	status & type	
101	frequency	<b>EQ Filter 6</b>
102	frequency	
103	frequency	
104	Q	
105	level	
106	level	
107	status & type	
108	frequency	<b>EQ Filter 7</b>
109	frequency	
110	frequency	
111	Q	
112	level	
113	level	
114	status & type	
115	frequency	<b>EQ Filter 8</b>
116	frequency	
117	frequency	
118	Q	
119	level	
120	level	
121	status & type	
122	frequency	<b>EQ Filter 9</b>
123	frequency	
124	frequency	
125	Q	
126	level	
127	level	
128	status & type	
129	frequency	<b>EQ Filter 10</b>
130	frequency	
131	frequency	
132	Q	
133	level	
134	level	
135	status & type	
136	frequency	<b>EQ Filter 11</b>
137	frequency	

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138	frequency	
139	Q	
140	level	
141	level	
142	status & type	
143	frequency	<b>EQ Filter 12</b>
144	frequency	
145	frequency	
146	Q	
147	level	
148	level	
149	status & type	
150	frequency	<b>EQ Filter 13</b>
151	frequency	
152	frequency	
153	Q	
154	level	
155	level	
156	status & type	
157	frequency	<b>EQ Filter 14</b>
158	frequency	
159	frequency	
160	Q	
161	level	
162	level	
163	status & type	
164	frequency	<b>EQ Filter 15</b>
165	frequency	
166	frequency	
167	Q	
168	level	
169	level	
170	status & type	
171	gain	bits 13-7; 7692 to 8312 = -50dB to +12dB (in 0.1dB steps), [8192 = 0dB]
172	gain	bits 6-0;
173	polarity	0 = normal; 1-127 = inverted
174	limiter threshold	80-120 = -20 to +20 dBu (in 1dB steps)
175	limiter ratio	0-7 = 1.2:1, 1.5:1, 2:1, 3:1, 4:1, 6:1, 10:1, 20:1, INF:1
176	limiter attack rate	0-7 = 0.2, 0.5, 1, 2, 5, 10, 20, 50 ms/dB
177	limiter release rate	0-7 = 5, 10, 20, 50, 100, 200, 500, 1000 ms/dB
178	limiter status	0 = bypassed; 1-127 = active
179	limiter link status	0 = not linked; 1-127 = linked (to limit bus of channels on same euroblock connector)
180	\$F7	Stop Byte