

Service schematics

Nokia N9 RM-696



IMPORTANT

This document is intended for use by authorized Nokia service centers only. Please use the document together with other documents such as the Service Manual and Service Bulletins.

Measurements

All measurements were made using the following equipment:

Nokia repair SW : Phoenix 2011.24.2.46258
Oscilloscope : PicoScope 3206
Spectrum Analyzer : CMW200
Multimeter : Fluke 175

The measurement points in the schematics are linked to the oscillograms on the signal overview page. The links cycle between the measurement point in the schematics, the oscillogram and the measurement point in the component finder.

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Version information

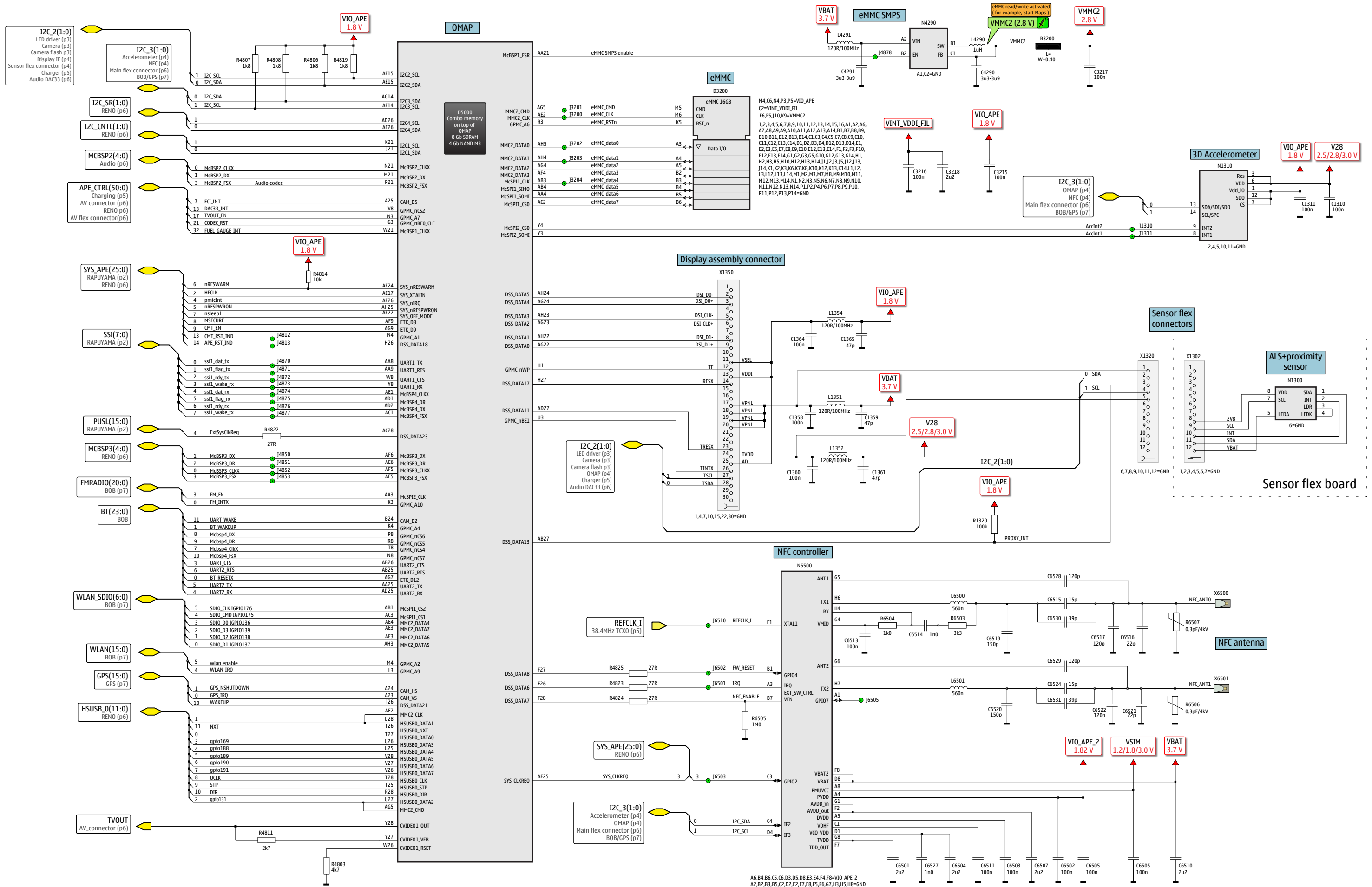
While every effort has been made to ensure that the document is accurate, some errors may exist. Please always check for the latest published version for this document.

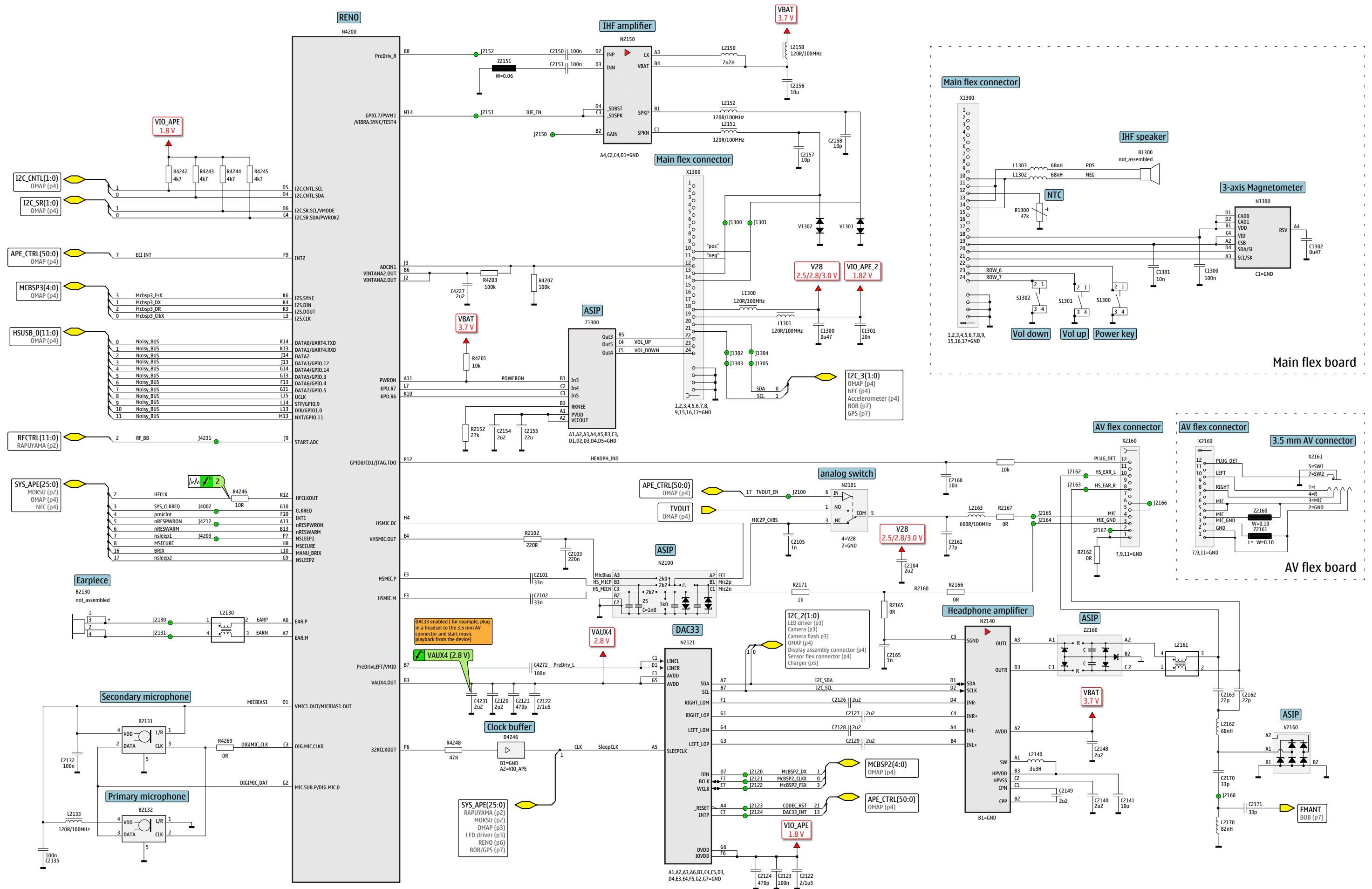
If you find any errors in the document please send email to: service.manuals@nokia.com

1.0 First approved version.

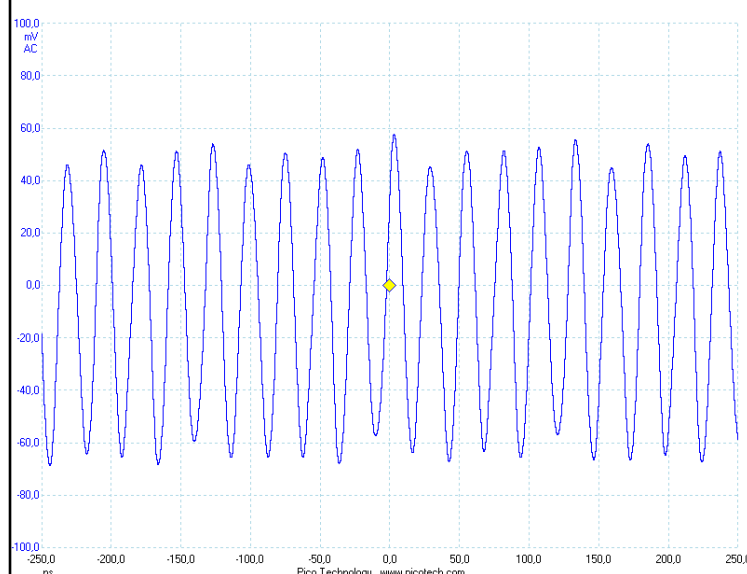
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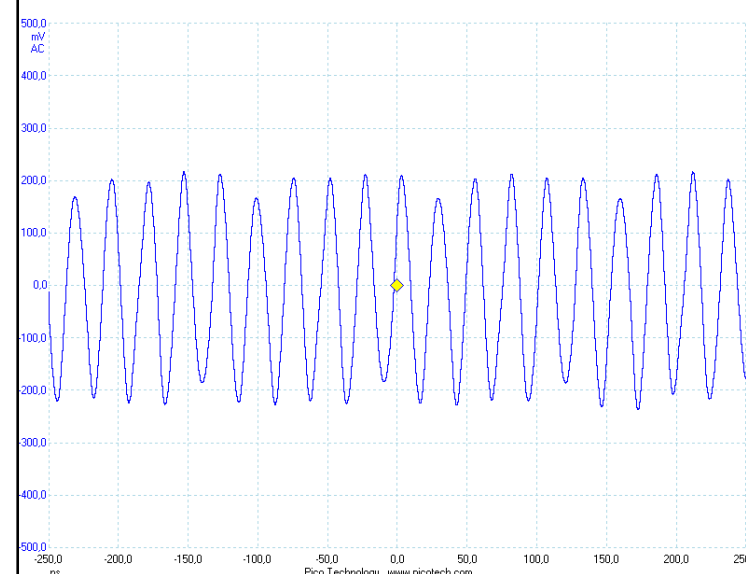


1) HFCLKIN at C4247 BOTH ENDS



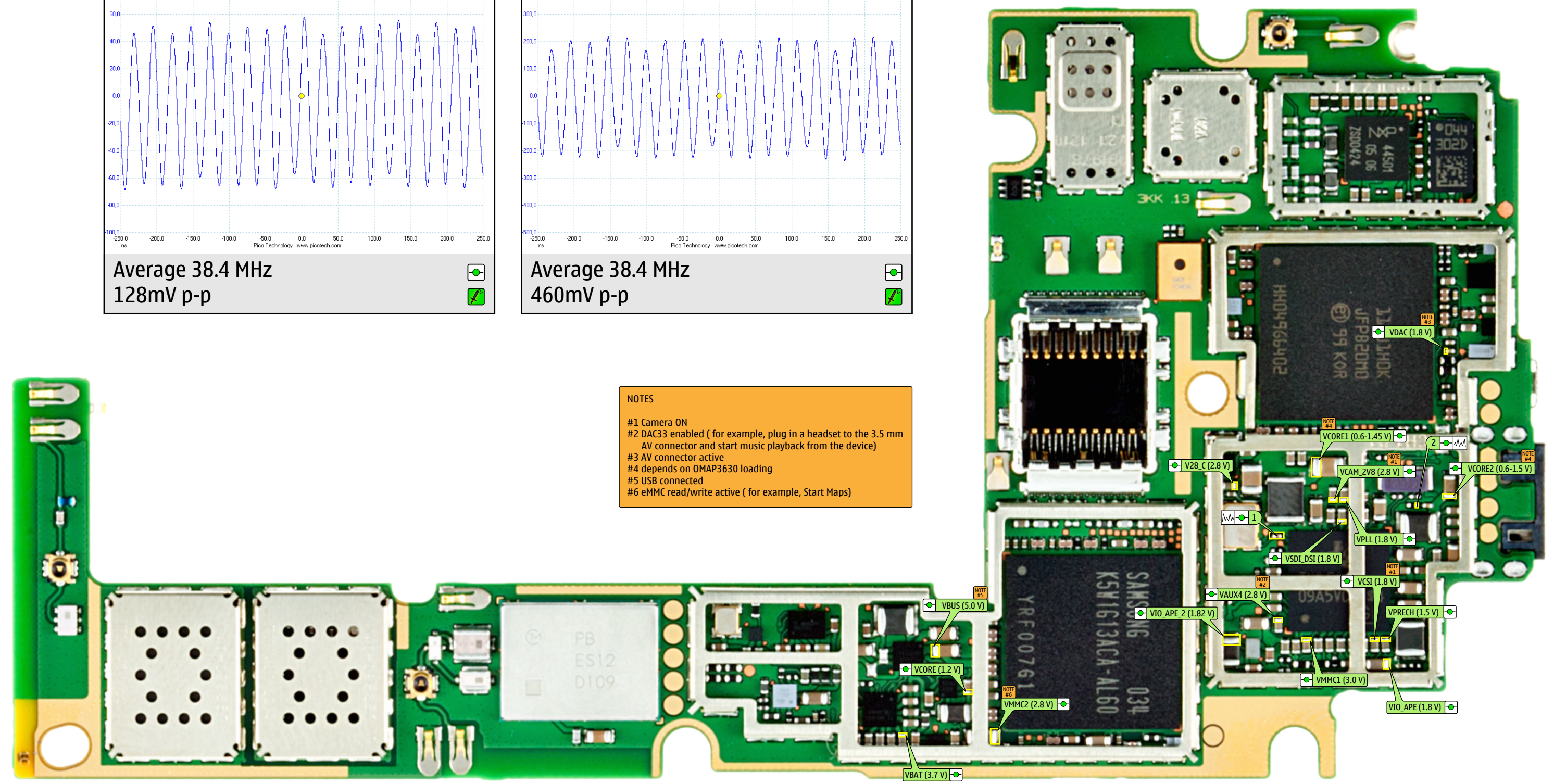
Average 38.4 MHz
128mV p-p

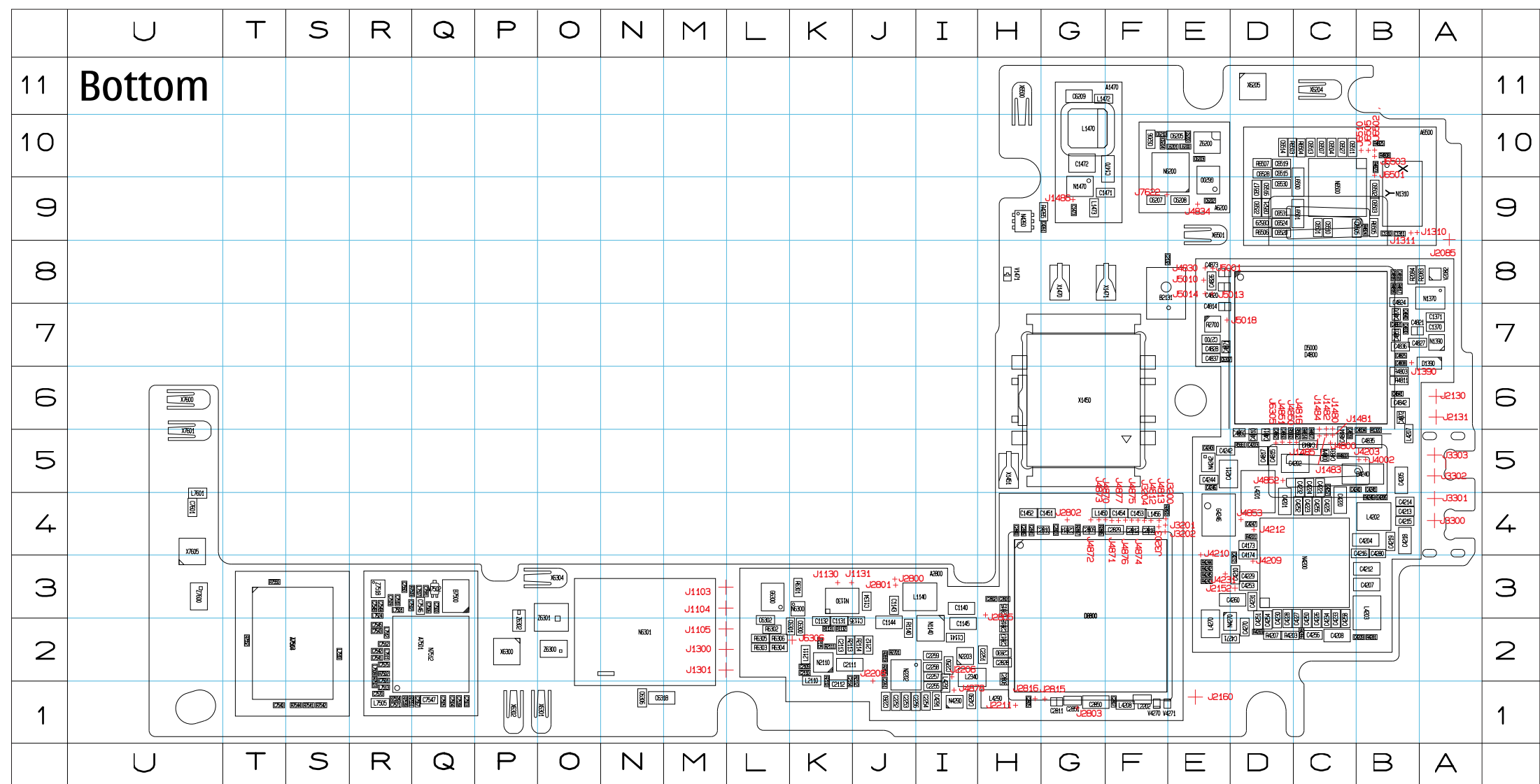
2) HFCLKOUT at R4246



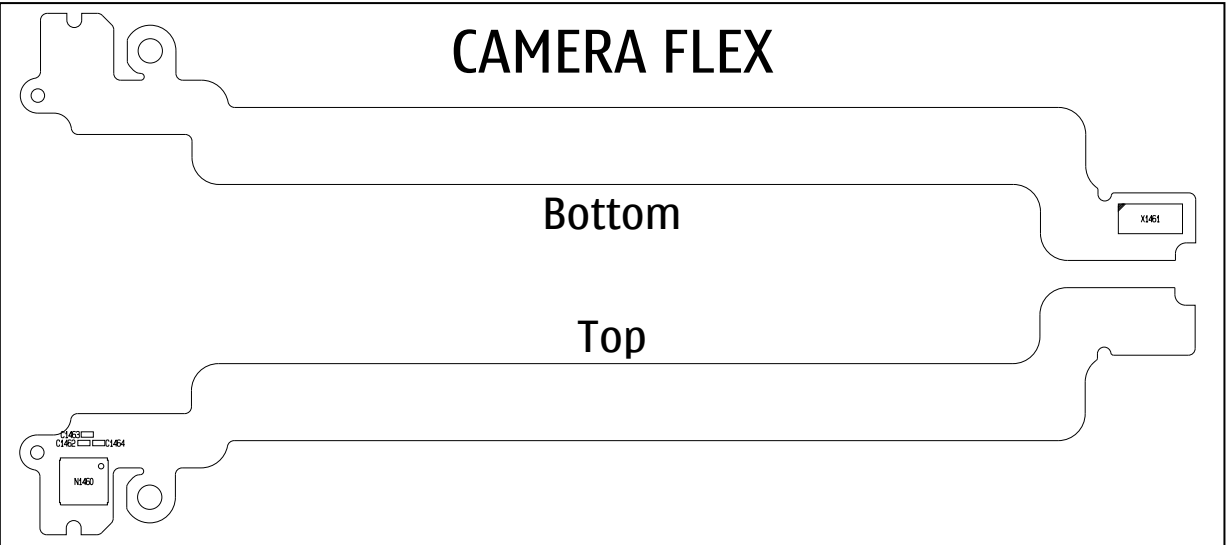
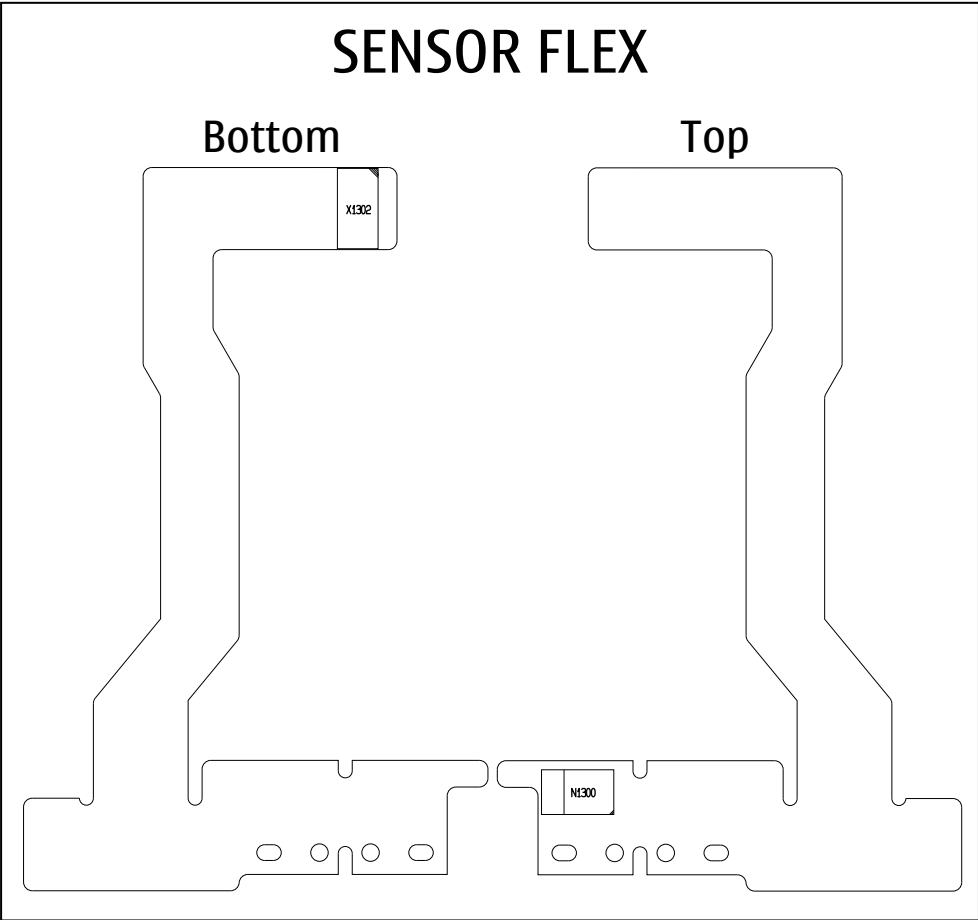
Average 38.4 MHz
460mV p-p

- NOTES
- #1 Camera ON
 - #2 DAC33 enabled (for example, plug in a headset to the 3.5 mm AV connector and start music playback from the device)
 - #3 AV connector active
 - #4 depends on OMAP3630 loading
 - #5 USB connected
 - #6 eMMC read/write active (for example, Start Maps)





A	C1145	I2	C2251	H2	C2810	G4	C4206	B4	C4229	D3	C4258	C2	C4827	B7	C4871	E7	C6503	B9	C7500	Q3	C7567	Q1	L1472	G11	L7510	S2	N6200	E10	R2806	G4	R4816	B8	R7503	R1	X6204	C11	
A1470	G10	C1310	B9	C2252	J1	C2811	G1	C4207	B3	C4230	D2	C4260	D3	C4828	E7	C4872	B6	C6504	C10	C7501	R2	C7570	R1	L1473	G9	L7511	R2	N6300	K3	R2807	G4	R4817	B8	R7504	R1	X6205	D11
A2800	I3	C1311	B9	C2253	J1	C2812	F4	C4208	C2	C4231	D3	C4261	G9	C4830	B7	C4873	E8	C6505	B9	C7502	R3	C7571	R1	L2110	K2	L7512	R2	N6301	N2	R2819	J2	R4822	C5	R7509	Q3	X6300	P2
A4800	C5	C1370	A7	C2254	I1	C2814	G4	C4209	B2	C4232	C5	C4270	D2	C4831	C5	C6200	E10	C6507	C10	C7503	Q1	C7575	R2	L2111	K2	L7513	R1	N6500	C9	R2820	F4	R4823	B10	R7539	R1	X6301	O1
A6200	E10	C1371	A7	C2255	I1	C2815	H3	C4210	D3	C4233	C2	C4271	D2	C4834	B5	C6202	E9	C6510	C9	C7504	Q1	C7581	Q3	L2112	J2	L7524	R3	N7512	Q2	R4201	D4	R4824	B9	R7541	S1	X6302	P1
A6500	C9	C1451	G4	C2256	I1	C2816	F4	C4211	E5	C4234	C2	C4272	D3	C4835	B5	C6203	E10	C6511	C10	C7505	Q1	C7601	U4	L2202	F1	L7601	U4	R	R4203	D2	R4825	B10	R7542	S1	X6304	O3	
A7501	Q2	C1452	H4	C2257	I2	C2817	H2	C4212	B3	C4240	C5	C4280	B4	C4836	B7	C6204	F10	C6513	C10	C7506	Q3	D	L2340	I2	N	R1131	K2	R4207	D2	R5660	D5	R7544	S1	X6500	H11		
A7504	S2	C1453	F4	C2258	I2	C2818	H2	C4213	B4	C4241	B5	C4290	I1	C4837	E7	C6205	E10	C6514	D10	C7509	R3	D1390	A7	L4201	D5	N1130	K3	R1132	K2	R4242	E3	R5661	D5	R7550	T3	X6501	E9
B	C1454	F4	C2259	I2	C2828	H2	C4214	B4	C4242	E5	C4291	I1	C4838	B7	C6206	F10	C6515	D10	C7510	R3	D2800	G3	L4202	B4	N1140	I2	R1140	J2	R4243	E3	R5662	C5	R7551	R1	X7600	U6	
B2131	F8	C1470	F10	C2260	J1	C2829	F4	C4215	B4	C4243	E5	C4810	D5	C4839	C5	C6207	F9	C6516	D9	C7512	R2	D4800	C7	L4203	B3	N1310	B9	R1320	B5	R4244	E3	R6301	K3	R7552	T2	X7601	U5
B4240	B5	C1471	F9	C2261	J1	C2830	H2	C4216	B4	C4244	E5	C4811	D5	C4840	B7	C6208	E9	C6517	D9	C7539	Q1	D5000	C7	L4270	E2	N1370	A8	R2083	A8	R4245	E3	R6302	L2	V	X7605	U4	
B7500	Q3	C1472	G10	C2700	E7	C2841	H4	C4218	B4	C4246	E5	C4814	E7	C4841	B6	C6209	G11	C6519	D10	C7540	T1	D6000	G3	L4290	H1	N1390	A7	R2084	B8	R4246	B4	R6303	L2	V1471	H8	Z	
C	C1473	G9	C2800	H4	C2850	G1	C4219	B4	C4247	D4	C4815	D5	C4842	B6	C6210	F10	C6520	D9	C7541	R2	G	L4291	I1	N1470	G9	R2110	K2	R4265	G9	R6304	L2	V2082	A8	Z6200	E10		
C1131	K2	C2109	K2	C2801	H3	C2851	G1	C4220	C4	C4250	C2	C4816	B8	C4843	C5	C6300	K2	C6521	D9	C7542	R2	G4246	E4	L6200	E10	N2110	K2	R2111	K2	R4266	C2	R6305	L2	V4270	F1	Z6300	O2
C1132	K2	C2110	K2	C2802	H3	C4173	D4	C4221	C5	C4251	D2	C4817	D5	C4844	C5	C6301	K2	C6522	D9	C7543	R2	G6200	E9	L6201	E10	N2202	J2	R2112	J2	R4269	D2	R6306	L2	V4271	F1	Z6301	O3
C1134	J3	C2111	K2	C2803	G4	C4174	D4	C4223	C4	C4252	C4	C4818	B8	C4850	D5	C6302	L2	C6524	D9	C7545	R2	G6300	L3	L6500	C9	N2203	I2	R2113	K2	R4281	B2	R6503	D10	V7502	Q3	Z6302	P2
C1135	J2	C2112	K1	C2805	H1	C4201	D4	C4224	C5	C4253	D3	C4820	E8	C4851	B7	C6306	N1	C6527	C10	C7546	Q3	L	L6501	C9	N4200	C3	R2114	J2	R4803	B6	R6504	C10	X	Z7513	S2		
C1140	I3	C2113	K2	C2806	H4	C4202	C5	C4225	C4	C4254	D2	C4821	B7	C4860	D5	C6307	E7	C6528	D10	C7547	Q1	L1140	I3	L7501	R3	N4242	E5	R2115	K2	R4807	C5	R6505	B9	X1450	G6	Z7518	R3
C1141	I2	C2114	K2	C2807	F1	C4203	D5	C4226	C2	C4255	C4	C4824	B8	C4861	B7	C6318	N1	C6529	D9	C7548	R3	L1450	G4	L7505	R1	N4260	H9	R2700	E7	R4808	B10	R6506	D9	X1451	H5	Z7600	U3
C1143	J3	C2132	E8	C2808	H2	C4204	B4	C4227	C2	C4256	C2	C4825	B7	C4862	D5	C6501	C9	C6530	D9	C7549	R3	L1456	F4	L7507	Q3	N4270	E2	R2701	J2	R4811	B6	R6507	D10	X1470	G8		
C1144	J2	C2250	I2	C2809	G4	C4205	B5	C4228	D2	C4257	C5	C4826	E8	C4870	B7	C6502	B9	C6531	D9	C7560	R3	L1470	G10	L7508	R2	N4290	I1	R2805	J2	R4814	C5	R7502	R2	X1471	F8		



C		R	
C1300	A2	R1300	C1
C1301	A2	S	
L		S1300	A1
L1302	C2	S1301	A2
L1303	C2	S1302	A3
N		X	
N1300	A2	X1300	B1

