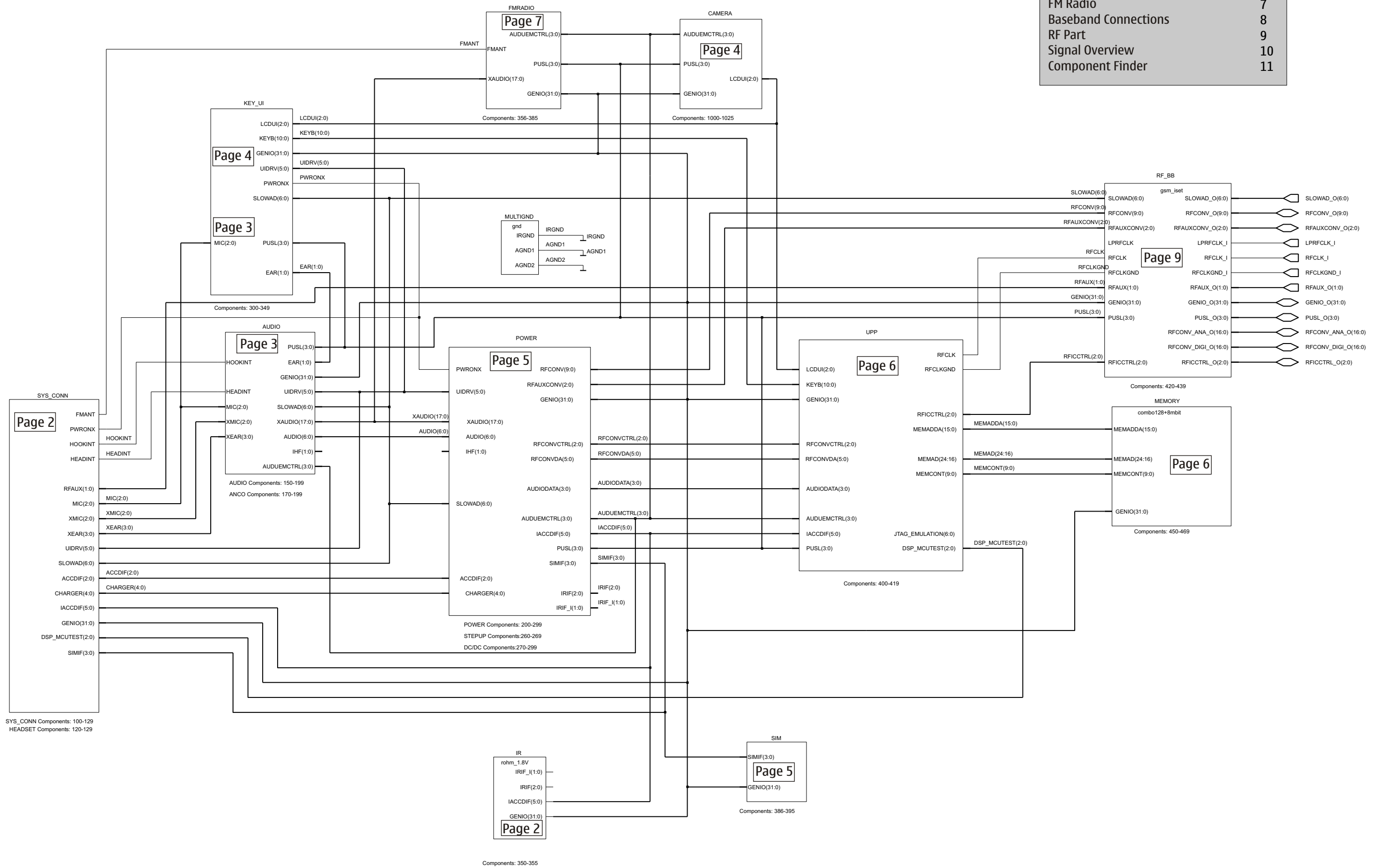
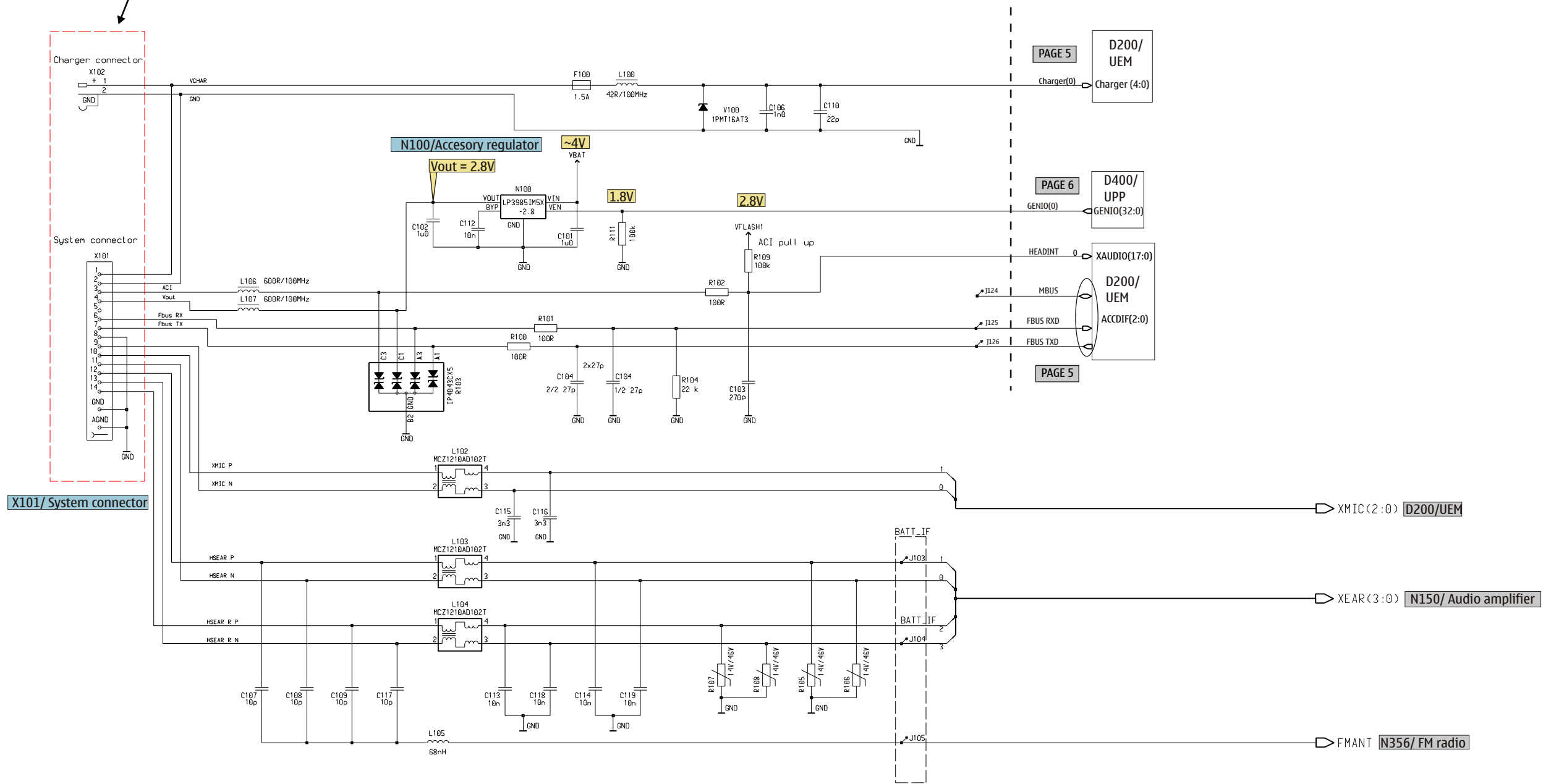
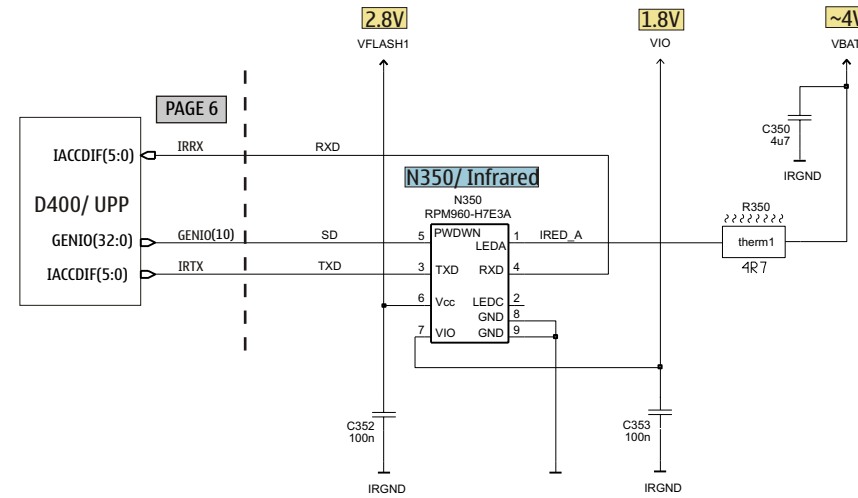
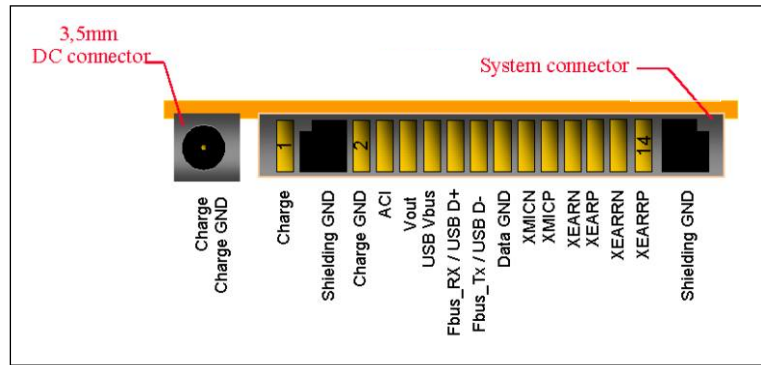
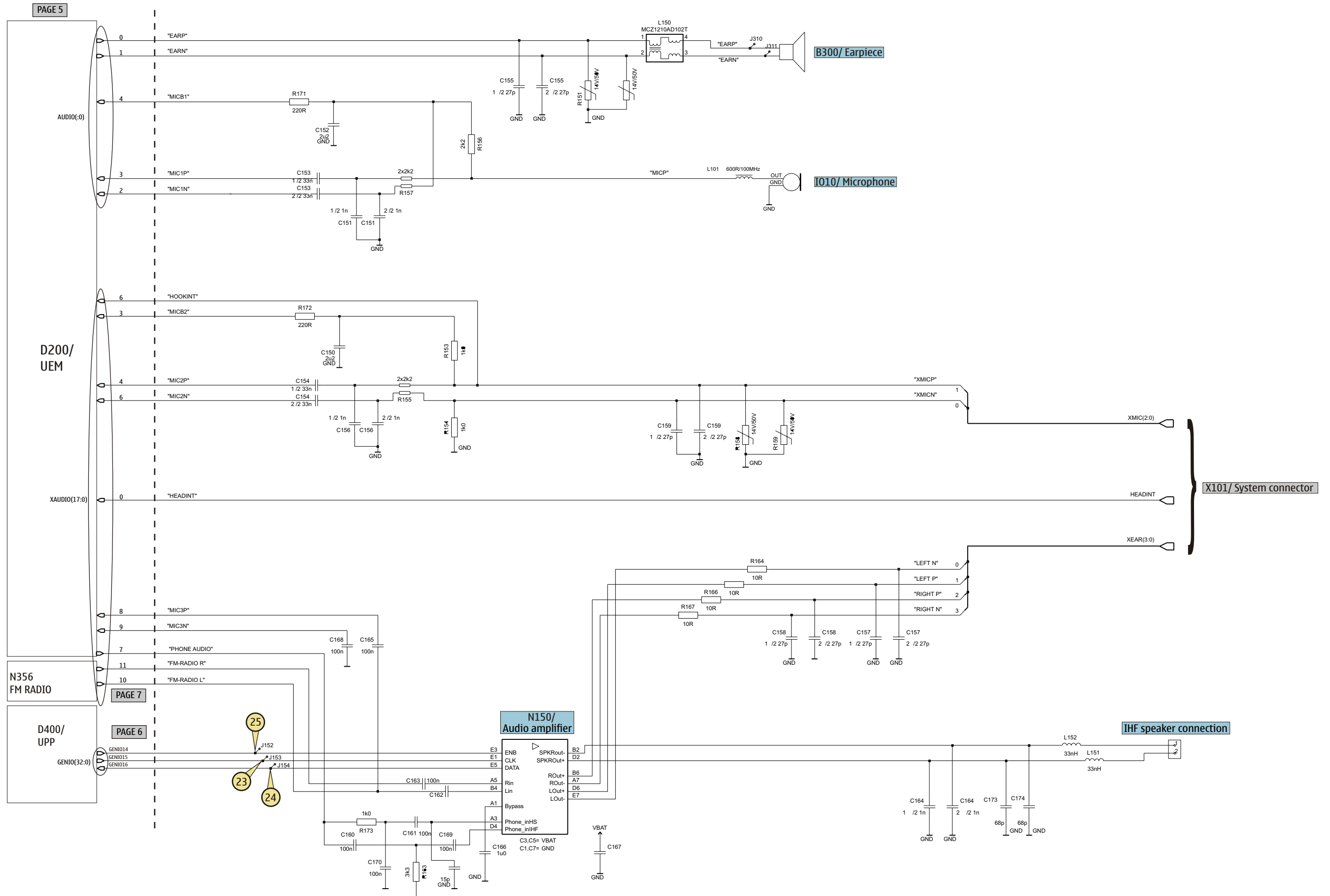
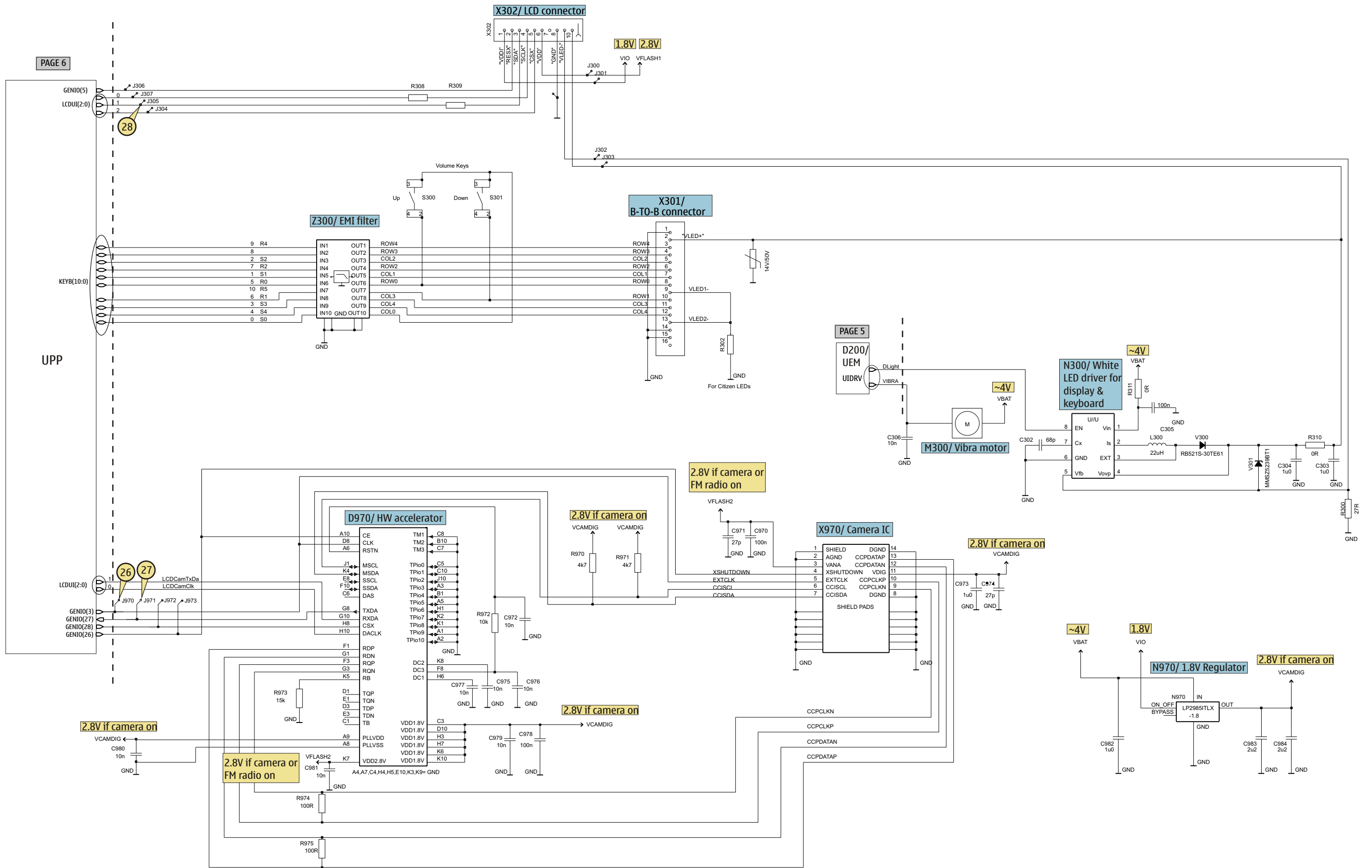


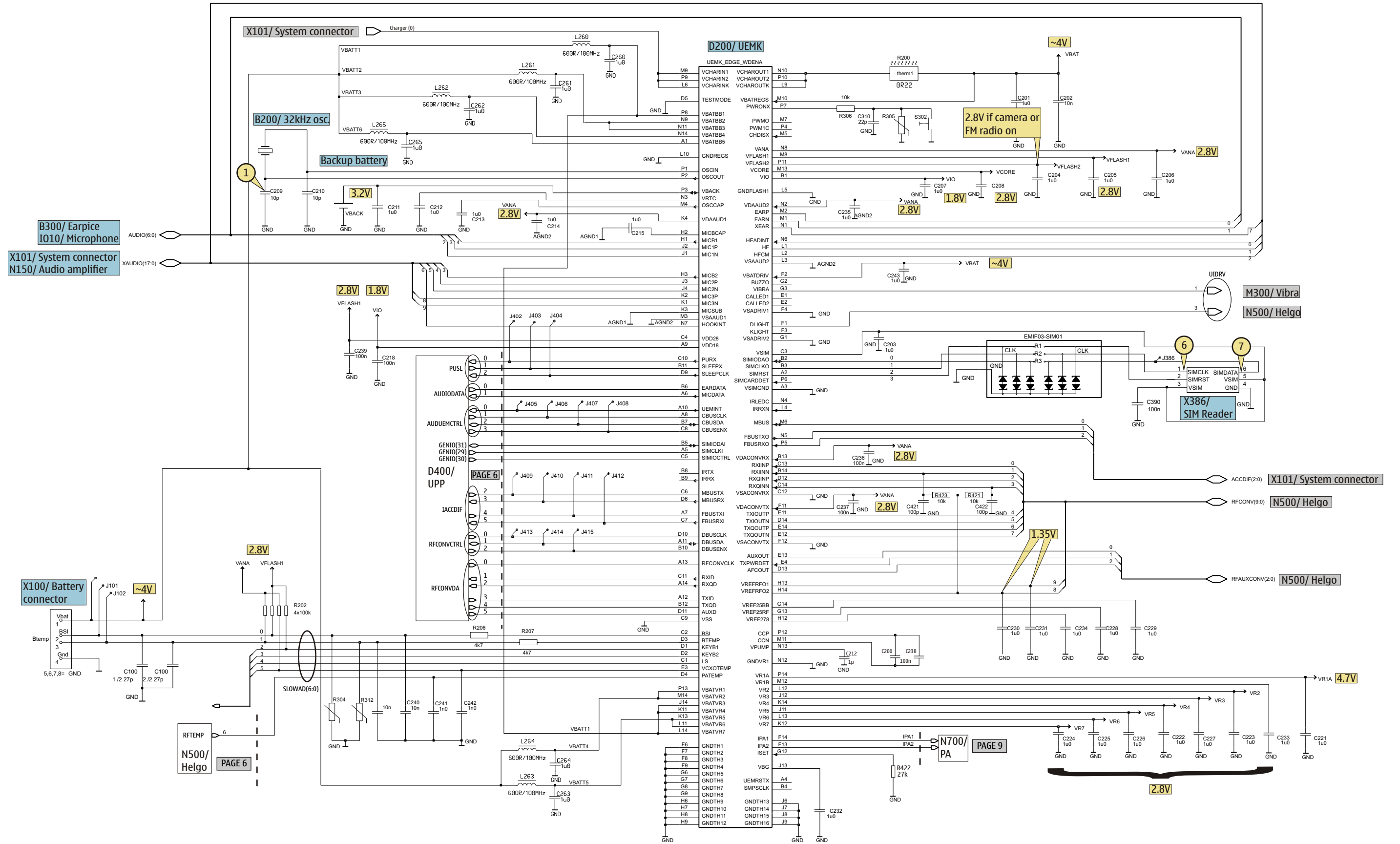
Table of Contents	Page
DCT4 Common Baseband	1
System Connector & IRDA	2
Audio	3
Camera/LCD Connector	4
UEMK	5
UPP & Memory	6
FM Radio	7
Baseband Connections	8
RF Part	9
Signal Overview	10
Component Finder	11

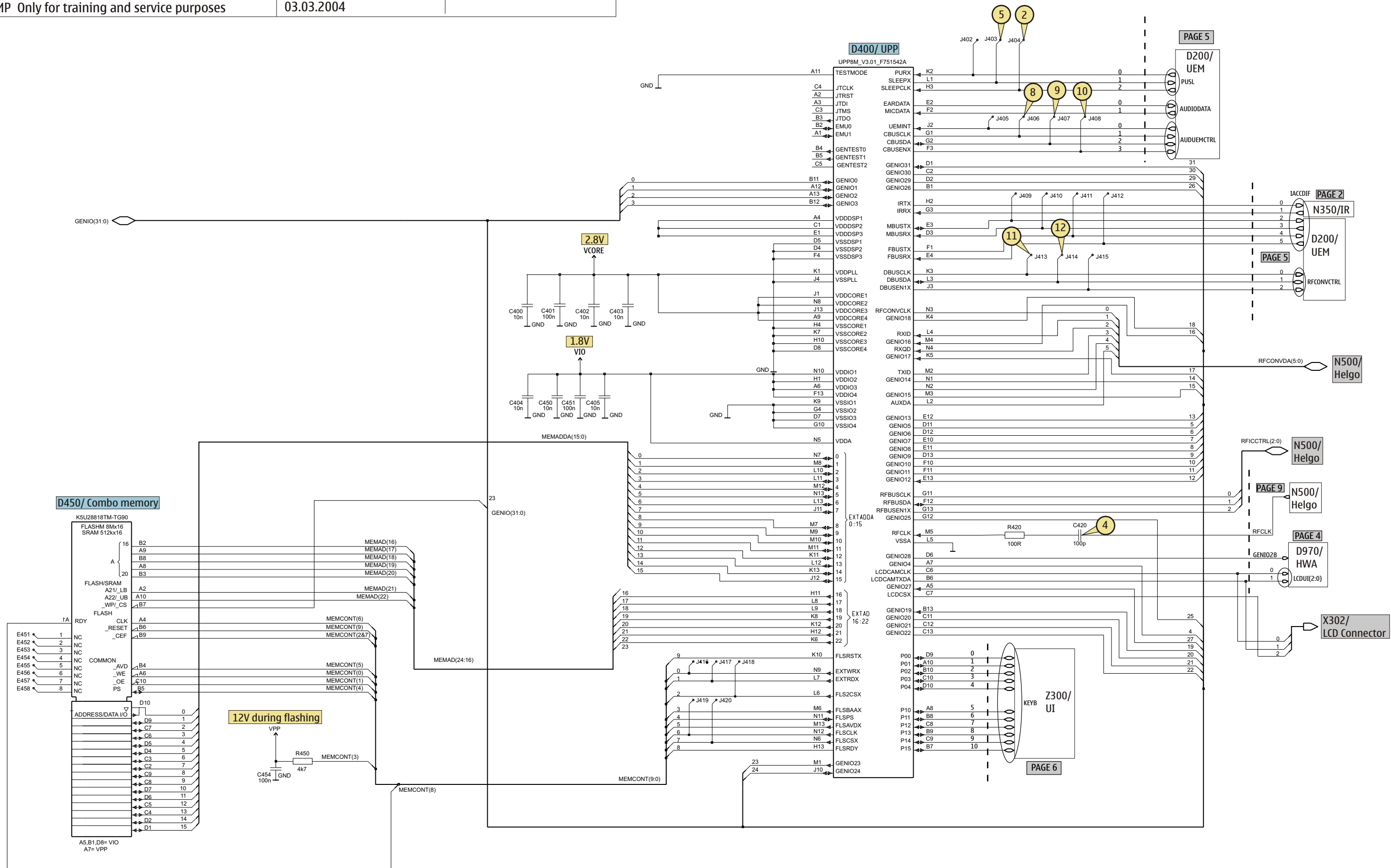


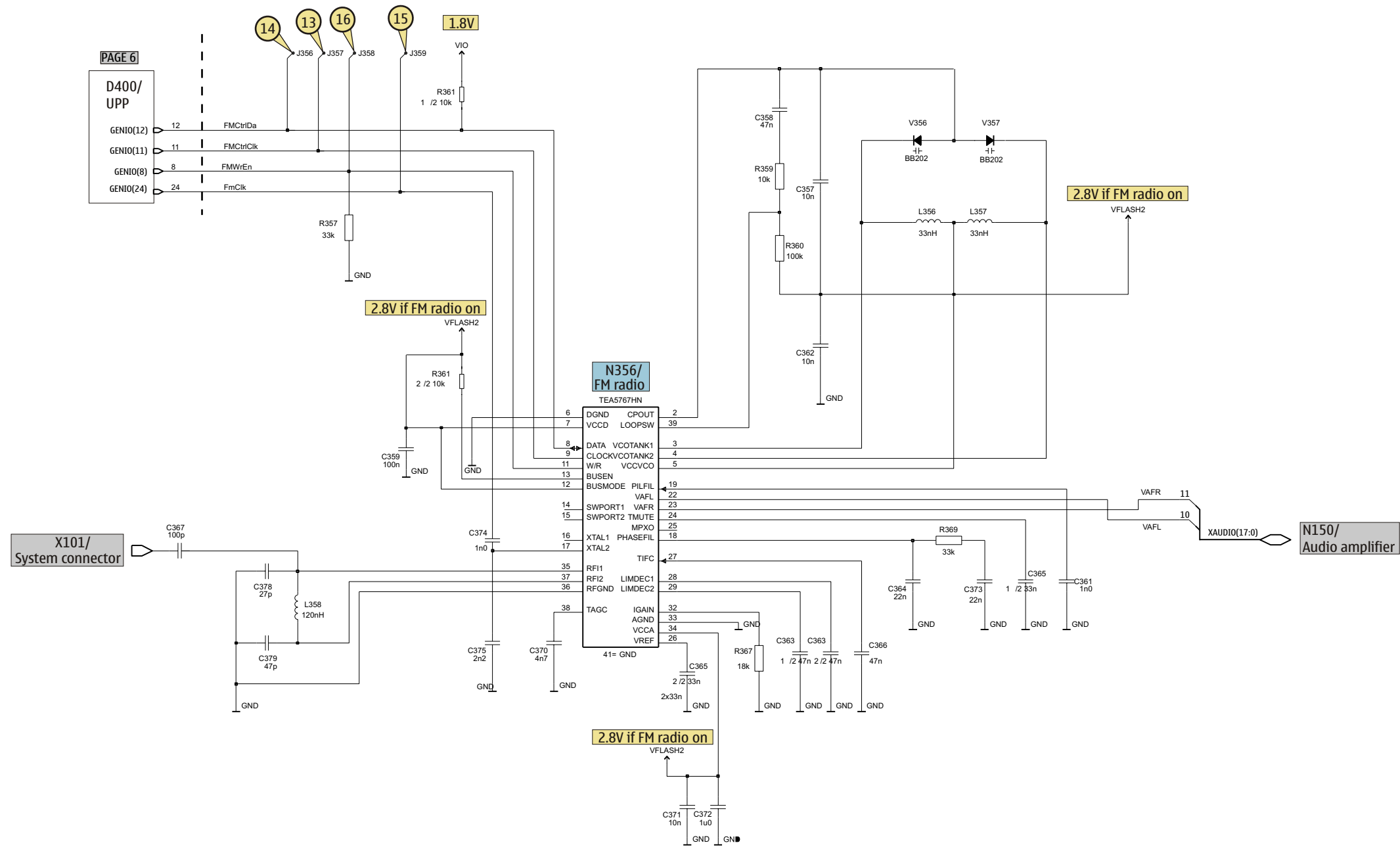


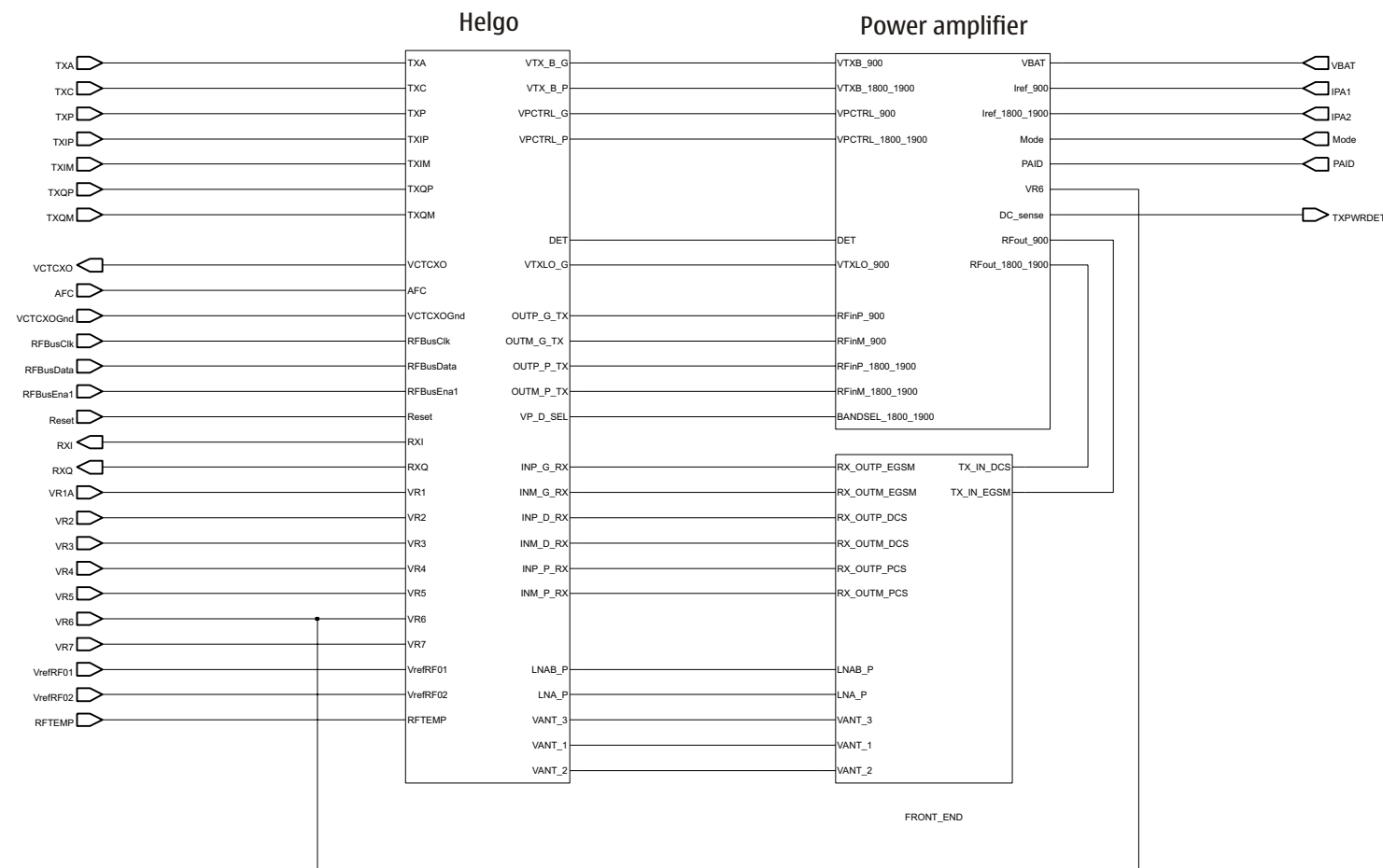
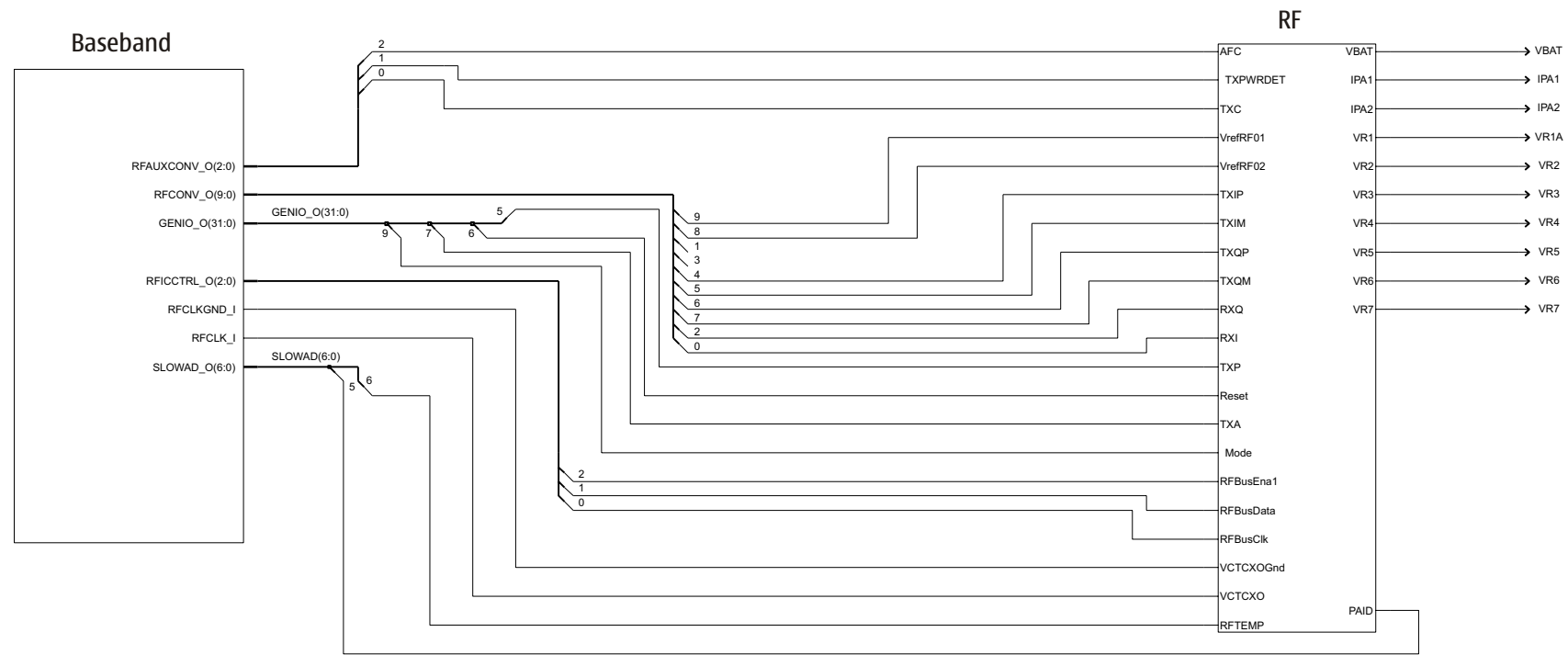






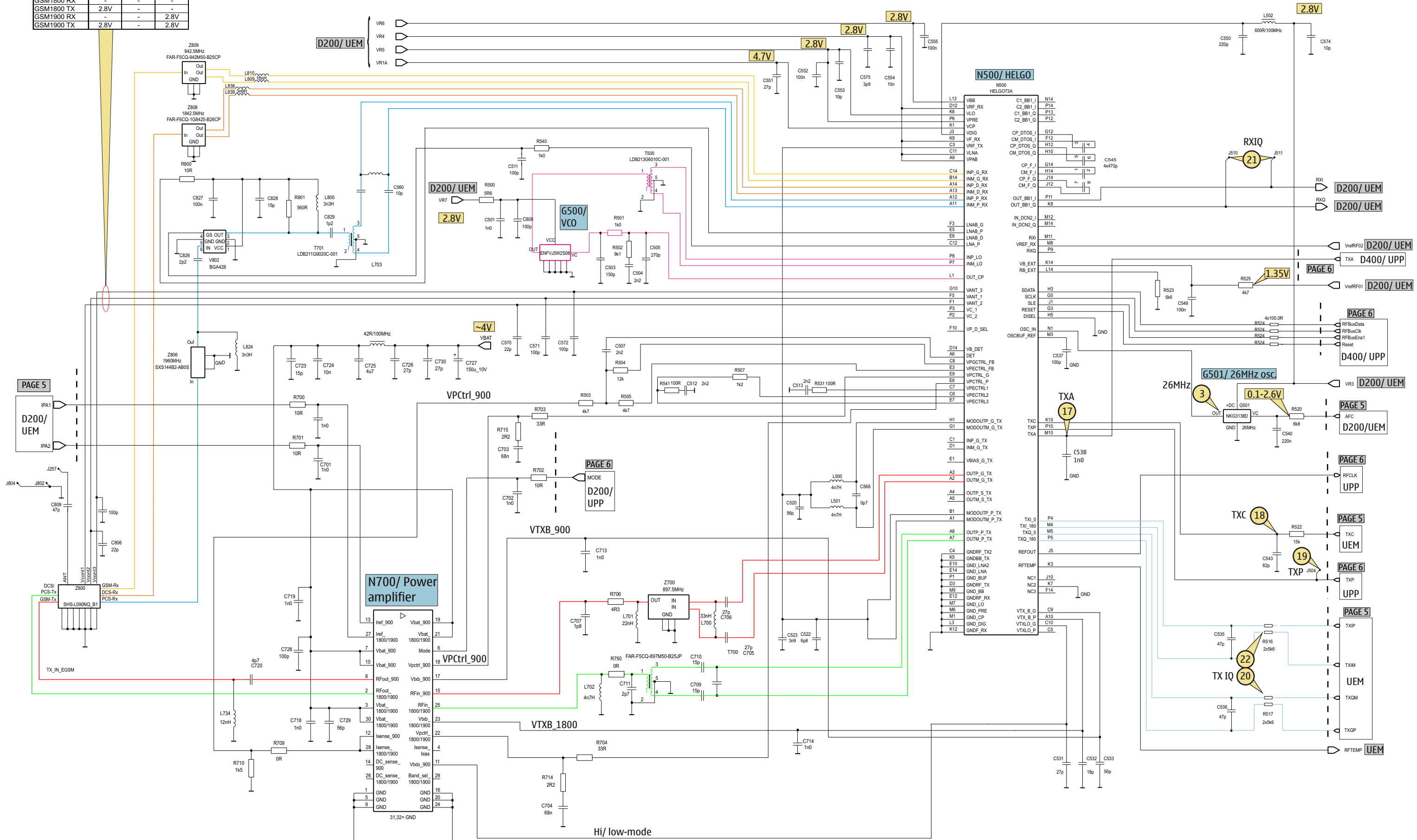






Band	Channel	RX	VCO/RX	VC/RX	TX	VCO/TX	VC/TX
GSM 900	37	942,4MHz	3769,6MHz	~ 2.72V	897,4MHz	3589,6MHz	~ 1.98V
GSM 1800	700	1842,8MHz	3685,6MHz	~ 2.37V	1747,8MHz	3495,6MHz	~ 1.59V
GSM 1900	661	1960MHz	3920MHz	~ 3.31V	1880MHz	3760MHz	~ 2.68V

	Vcont1	Vcont2	Vcont3
GSM850/900 RX	-	-	-
GSM850/900 TX	-	2.8V	-
GSM1800 RX	-	-	-
GSM1800 TX	2.8V	-	-
GSM1900 RX	-	-	2.8V
GSM1900 TX	2.8V	-	2.8V



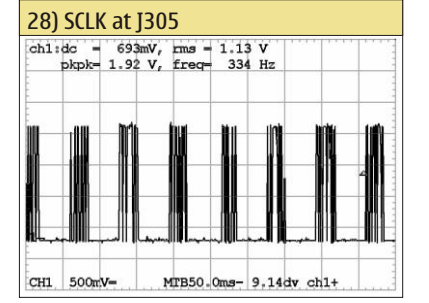
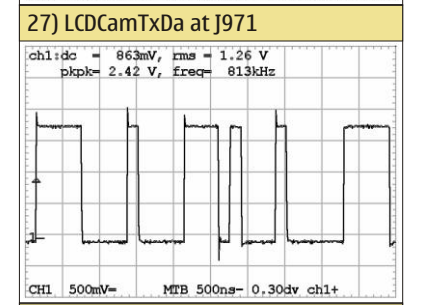
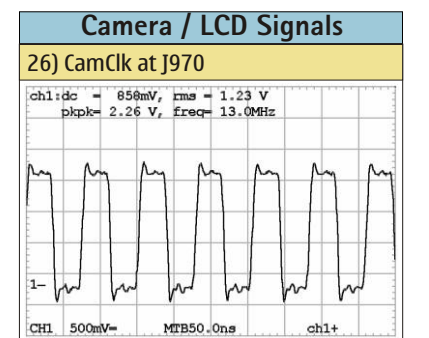
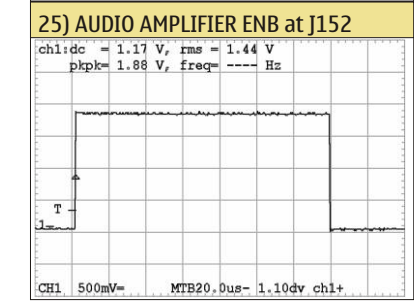
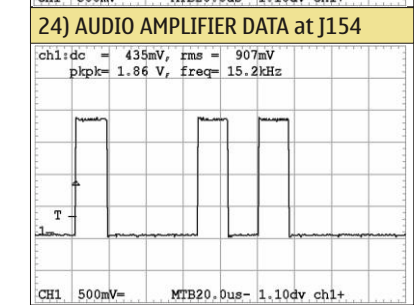
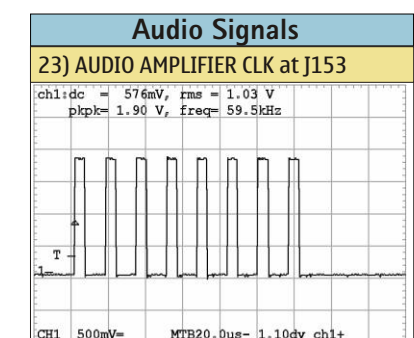
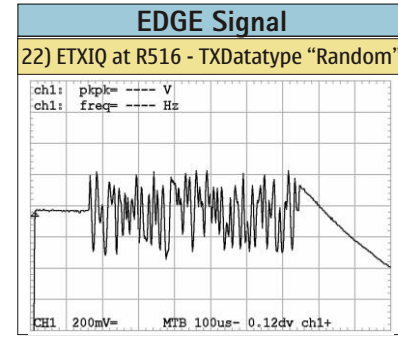
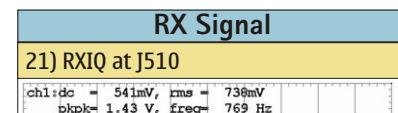
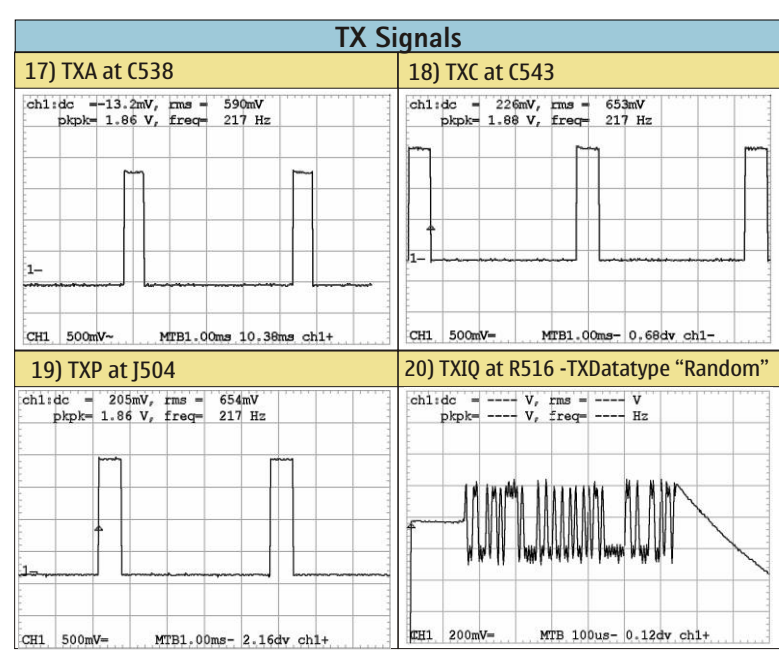
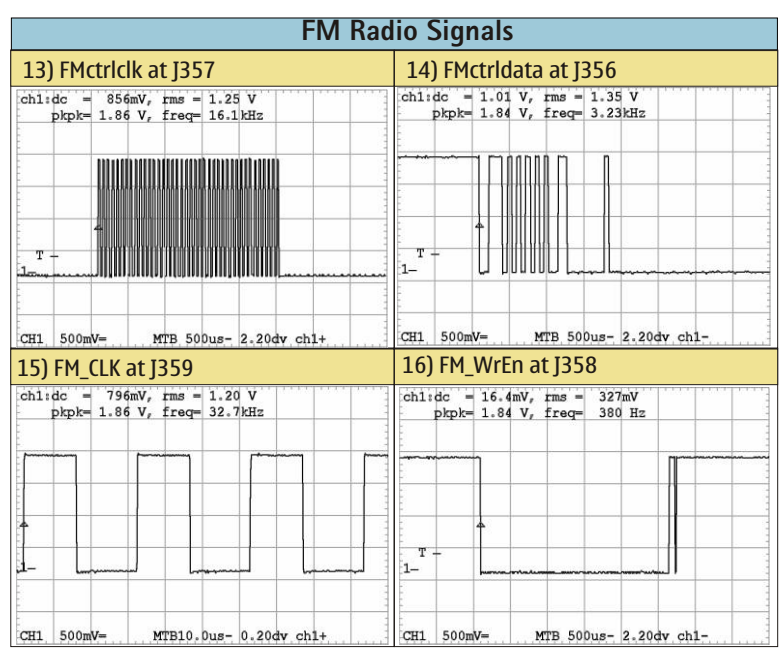
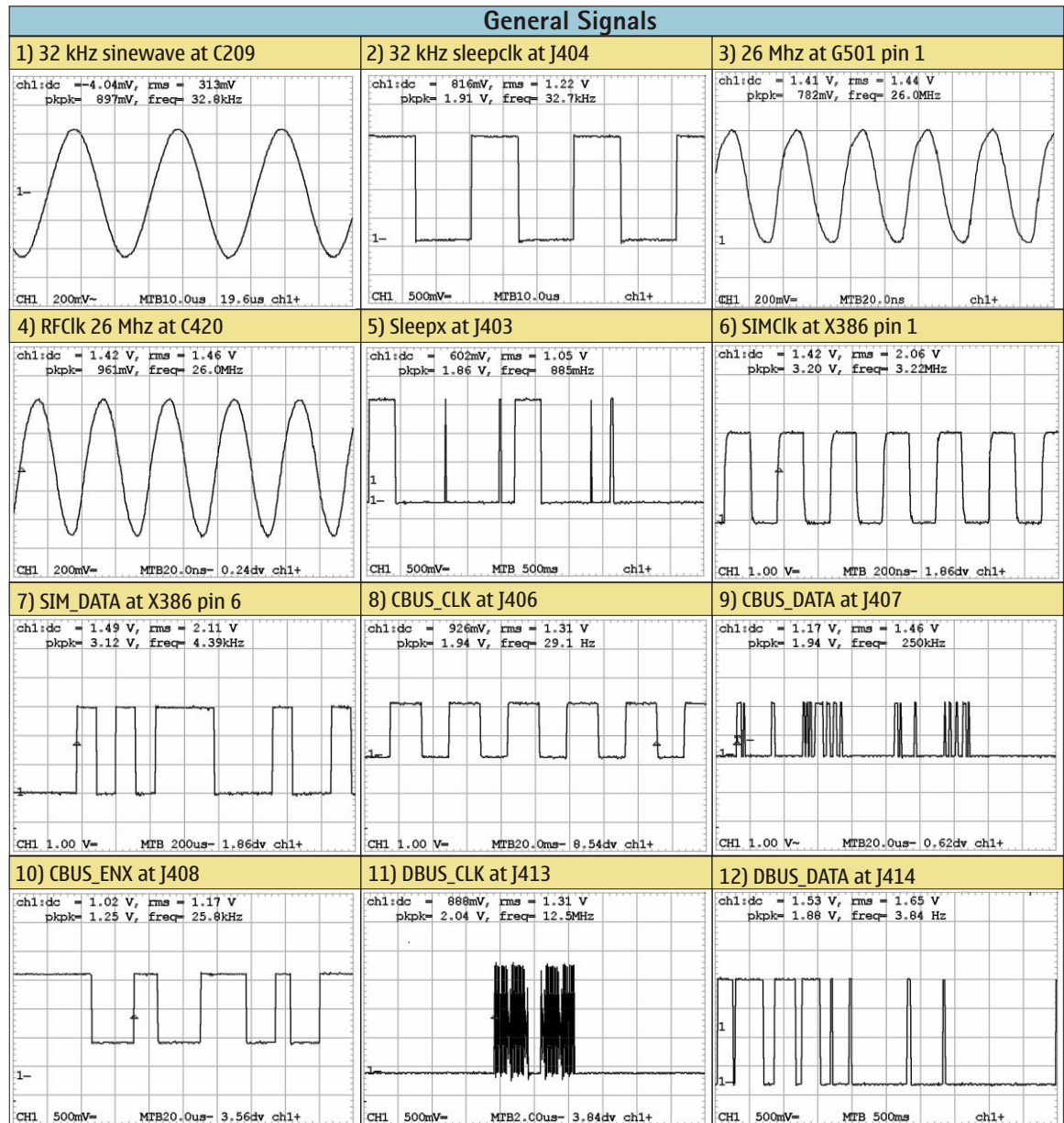
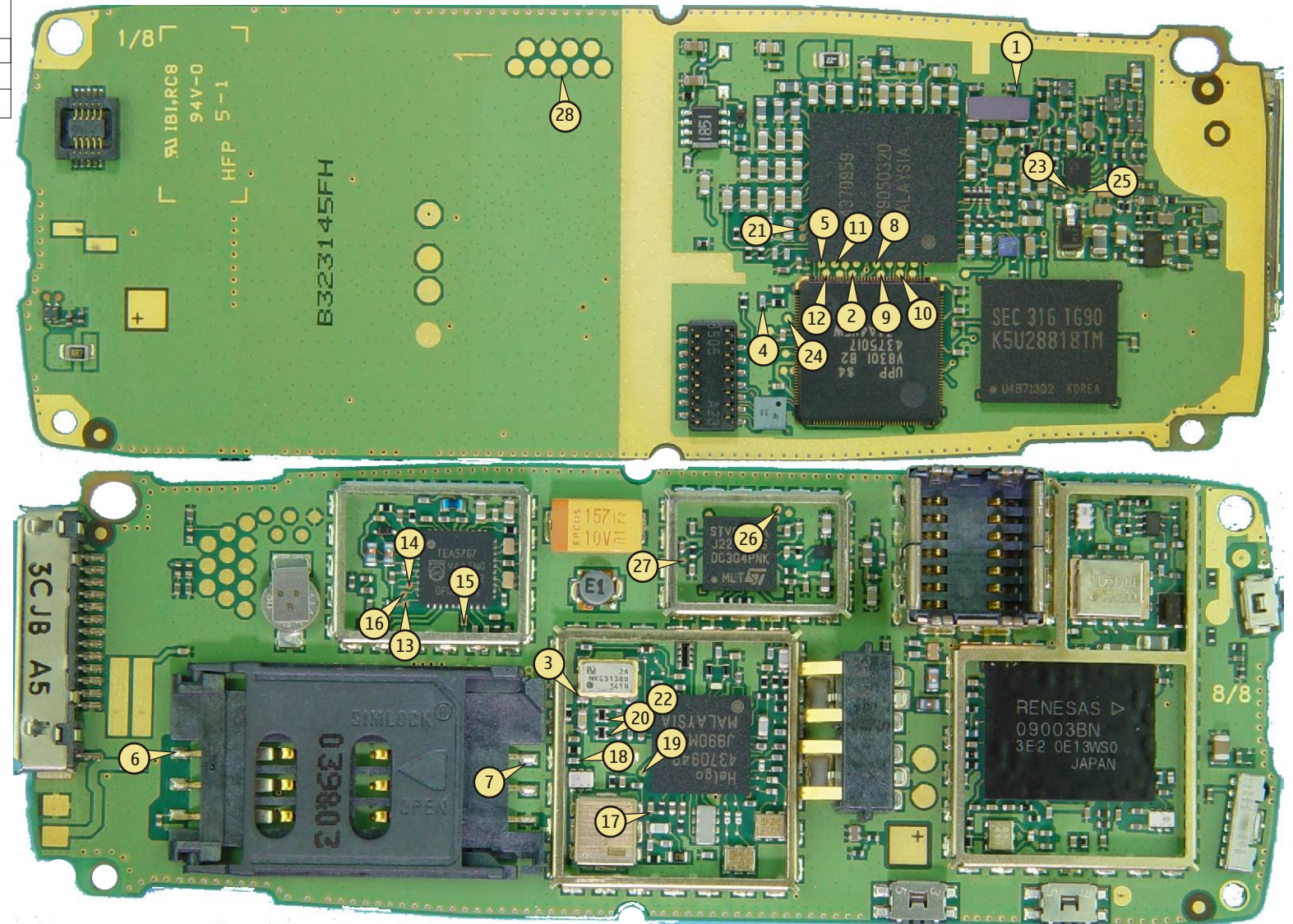
N500/HELGO

N500 HELGOT3A

L12	VBB	C1_BB1_I	N14
D12	VRF_RX	C2_BB1_J	P14
K6	VLO	C1_BB1_O	P13
P6	VPRE	C2_BB1_O	P12
K1	VCP		
K11	VDDG		
J3	VF_RX		
K9	VF_TX		
C3	VRF_TX		
C11	VLNA		
A9	VPAB		
C14	INP_G_RX		
B14	INM_G_RX		
A14	INP_D_RX		
A13	INM_D_RX		
A12	INP_P_RX		
A11	INM_P_RX		
F3	LNAB_G		
E5	LNAB_P		
E8	LNAB_D		
C12	LNAB_P		
P8	INP_LO		
P7	INM_LO		
L1	OUT_CP		
G10	VANT_3		
F5	VANT_1		
F1	VANT_2		
P3	VC_1		
P2	VC_2		
F10	VP_D_SEL		
D14	VB_DET		
A5	DET		
C8	VPCCTRL_FB		
E3	VPECTRL_FB		
E9	VPECTRL_G		
E8	VPECTRL_P		
C7	VPECTRL1		
C6	VPECTRL2		
E7	VPECTRL3		
H1	MODOUTP_G_TX		
G1	MODOUTM_G_TX		
C1	INP_G_TX		
D1	INM_G_TX		
E1	VBIAS_G_TX		
A3	OUTP_G_TX		
A2	OUTM_G_TX		
A4	OUTP_S_TX		
A5	OUTM_S_TX		
B1	MODOUTP_P_TX		
A1	MODOUTM_P_TX		
A8	OUTP_P_TX		
A7	OUTM_P_TX		
K5	GNDRF_TX2		
E10	GNDDB_TX		
E14	GND_LNA2		
P1	GND_LNA		
D3	GND_BUF		
M9	GNDRF_TX		
E12	GND_BB		
M7	GNDRF_RX		
M6	GND_LO		
M11	GND_PRE		
L3	GND_CP		
K12	GND_DIG		
	GNDRF_RX		

N700/ Power amplifier

Hi/ low-mode



A	C223 - L6	C505 - K2	C973 - G6	R	R516 - L4
A356 - O6	C224 - L5	C507 - I4	C974 - G6	R100 - T5	R517 - L4
A500 - K3	C225 - M6	C511 - C7	C975 - I7	R101 - S5	R520 - L4
A700 - D5	C226 - M5	C512 - I5	C976 - J7	R102 - T5	R522 - L3
A970 - I7	C227 - L5	C513 - I5	C977 - I7	R103 - T5	R523 - K3
B	C228 - M5	C520 - J5	C978 - I6	R104 - S5	R524 - J5
B200 - P7	C229 - L5	C522 - J5	C979 - H6	R105 - S6	R525 - J2
C	C230 - L5	C523 - J5	C980 - J7	R106 - R6	R531 - I5
C100 - H2	C231 - M5	C531 - F5	C981 - I7	R107 - R6	R540 - C7
C101 - R5	C232 - M5	C532 - I4	C982 - H7	R108 - R6	R541 - I5
C102 - S4	C233 - M6	C533 - I4	C983 - H6	R109 - P5	R700 - F3
C103 - P6	C234 - M5	C535 - K4	C984 - G7	R111 - R4	R701 - F4
C104 - S5	C235 - P7	C536 - K4	D	R151 - A3	R702 - D2
C106 - Q5	C236 - M4	C537 - K5	D200 - O5	R152 - B3	R703 - E3
C107 - S7	C237 - M4	C538 - K3	D400 - N3	R153 - Q6	R704 - D2
C108 - S7	C238 - N7	C540 - L4	D450 - Q3	R154 - Q6	R706 - F2
C109 - R7	C239 - Q5	C543 - L3	D970 - J7	R155 - Q6	R709 - F4
C110 - R5	C240 - Q5	C545 - J2	F	R156 - S5	R710 - F4
C112 - S4	C241 - Q5	C549 - J3	F100 - S3	R157 - S5	R714 - D3
C113 - R6	C242 - Q5	C550 - J5	G	R158 - R6	R715 - E3
C114 - S6	C243 - Q5	C551 - J5	G300 - Q6	R159 - Q7	R716 - D6
C115 - Q7	C260 - M6	C552 - K4	G500 - L2	R163 - Q6	R717 - Q4
C116 - R7	C261 - O7	C553 - K4	G501 - L5	R164 - R5	R718 - D5
C117 - R7	C262 - M6	C554 - L4	L	R165 - R6	R750 - C3
C118 - R7	C263 - M6	C555 - K3	L100 - R4	R166 - R6	R800 - C8
C119 - R6	C264 - N7	C560 - K3	L101 - S5	R167 - R6	R801 - C7
C150 - Q6	C265 - Q5	C568 - J5	L102 - R7	R171 - S5	R970 - I6
C151 - R5	C302 - K6	C570 - B7	L103 - S6	R172 - P5	R971 - I6
C152 - S5	C304 - L7	C571 - I5	L104 - R7	R173 - Q6	R972 - J7
C153 - R5	C305 - L6	C572 - J2	L105 - S7	R200 - N7	R973 - I7
C154 - Q6	C306 - R5	C574 - L5	L702 - B3	R202 - P5	R974 - I6
C155 - P6	C310 - A5	C575 - I3	L703 - C5	R206 - P5	R975 - J6
C157 - S6	C350 - B4	C700 - F3	L800 - C7	R207 - P5	S
C158 - R6	C352 - A4	C701 - F4	L805 - I3	R301 - L7	S302 - A6
C159 - Q7	C353 - B3	C702 - D2	L809 - J2	R304 - H2	T
C160 - Q5	C357 - O7	C703 - E3	L810 - I2	R305 - A5	T500 - L3
C161 - Q6	C358 - O7	C704 - D2	L824 - B7	R306 - A5	T700 - C3
C162 - P6	C359 - O6	C705 - D2	L838 - I3	R307 - L4	T701 - D7
C163 - M6	C361 - M6	C706 - D2	L839 - I3	R308 - B6	V
C164 - F5	C362 - O6	C707 - F3	N	R309 - B6	V100 - R4
C165 - P6	C363 - M7	C708 - I4	N100 - S4	R310 - G2	V300 - L6
C166 - R6	C364 - N5	C709 - C2	N150 - R6	R311 - T3	V311 - S3
C167 - Q5	C365 - M6	C710 - C3	N300 - L6	R312 - S3	V312 - S4
C168 - P6	C366 - M7	C711 - C3	N350 - A3	R313 - T3	V313 - S3
C169 - Q5	C367 - O8	C713 - E3	N356 - N6	R314 - S3	V314 - S3
C170 - P6	C370 - O7	C714 - C3	N500 - J4	R315 - L7	V317 - S2
C171 - Q6	C371 - M7	C718 - F5	N700 - D4	R316 - S2	V318 - U3
C173 - G5	C372 - N7	C719 - D3	N970 - H7	R317 - K7	V319 - U2
C174 - G5	C373 - M5	C723 - C5	L106 - T4	R318 - T2	V320 - S2
C200 - N7	C374 - N6	C724 - D5	L107 - T4	R325 - L6	V356 - O7
C201 - M7	C375 - N5	C725 - C5	L150 - A3	R350 - B2	V357 - O7
C202 - M7	C378 - N7	C726 - B5	L151 - F5	R357 - O6	V802 - C7
C203 - P4	C379 - N7	C727 - L7	L152 - F4	R359 - O7	X
C204 - M7	C390 - S2	C728 - D3	L260 - M6	R360 - O7	X100 - G4
C205 - O7	C391 - M3	C729 - D5	L261 - O7	R361 - O6	X101 - T5
C206 - O7	C400 - P3	C730 - G5	L262 - M6	R367 - M7	X301 - L2
C207 - P4	C401 - P4	C734 - D6	L263 - M6	R369 - M5	X302 - B6
C208 - N7	C402 - M4	C804 - C7	L264 - M7	R388 - Q4	X305 - B4
C209 - P7	C403 - M2	C805 - D7	L265 - Q5	R420 - M3	X386 - P3
C210 - Q7	C404 - P3	C806 - C7	L300 - L6	R421 - M4	X970 - F7
C211 - O7	C405 - M3	C807 - I3	L356 - O7	R422 - L4	Z
C212 - P7	C420 - M3	C808 - I3	L357 - O7	R423 - L4	Z300 - M2
C213 - O7	C421 - M4	C809 - D7	L358 - N7	R450 - Q4	Z700 - E2
C214 - P6	C422 - M4	C826 - B7	L500 - J5	R500 - L3	Z800 - C6
C215 - P6	C450 - S2	C827 - C8	L501 - J5	R501 - K2	Z806 - B6
C218 - P5	C451 - P3	C828 - C8	L502 - K5	R502 - J2	Z808 - I2
C219 - N7	C454 - Q4	C829 - C8	L700 - E2	R503 - I4	Z809 - I2
C220 - Q5	C501 - K3	C970 - G7	L701 - F2	R504 - I4	
C221 - M7	C503 - K2	C971 - G7		R505 - I4	
C222 - M6	C504 - K2	C972 - J6		R507 - I5	

