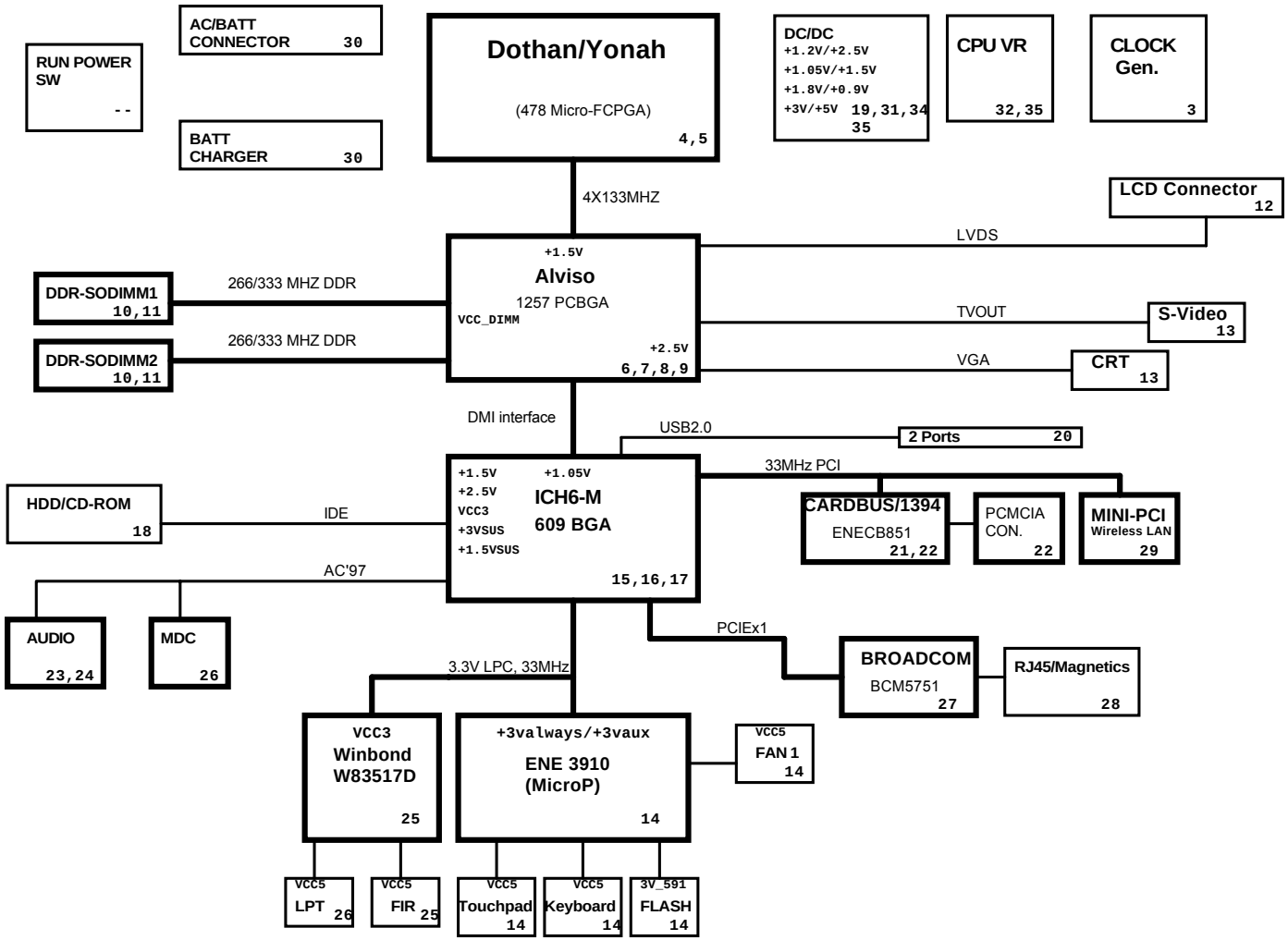
558

Rev: B **15-F55-010020**



Page	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
Rev.	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0
Data	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13

Page	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Rev.	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0	B.0
Data	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13	2004/10/13

Elitegroup Computer Systems

Title: **BLOCK DIAGRAM**

Size: C | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 1 of 37

Voltage Rails		ON S0~S1	ON S3	ON S4	ON S5	Control signal
12VOUT		X	X	X	X	
3V_591		X	X	X	X	
5VPCU		X	X	X	X	
+3V_S5		X	X	X	X	S5_ON
+1.5V_S5		X	X	X	X	S5_ON
+1.8VSUS		X	X			SUSON
+3VSUS		X	X			SUSON
+5VSUS		X	X			SUSON
+0.9VSUS	DDR Termination voltage	X	X			SUSON
CPU_CORE	Core voltage for Processor	X				VR_ON
+0.9V		X				MAINON
+VCCP	1.05V rail for Processor I/O	X				MAINON
+1.5V		X				MAINON
+1.8V		X				MAINON
+2.5V		X				MAINON
+3V		X				MAINON
+5V		X				MAINON
+12V		X				MAINON

External PCI Devices

Device	IDSEL#	REQ#/GNT#	Interrupts
CardBus+1394	AD17	1	PIRQD/C
Mini-PCI	AD19	2	PIRQB/D

EC SM Bus1 address

Device
Smart Battery
THERMAL SENSOR

ICH4-M SM Bus address

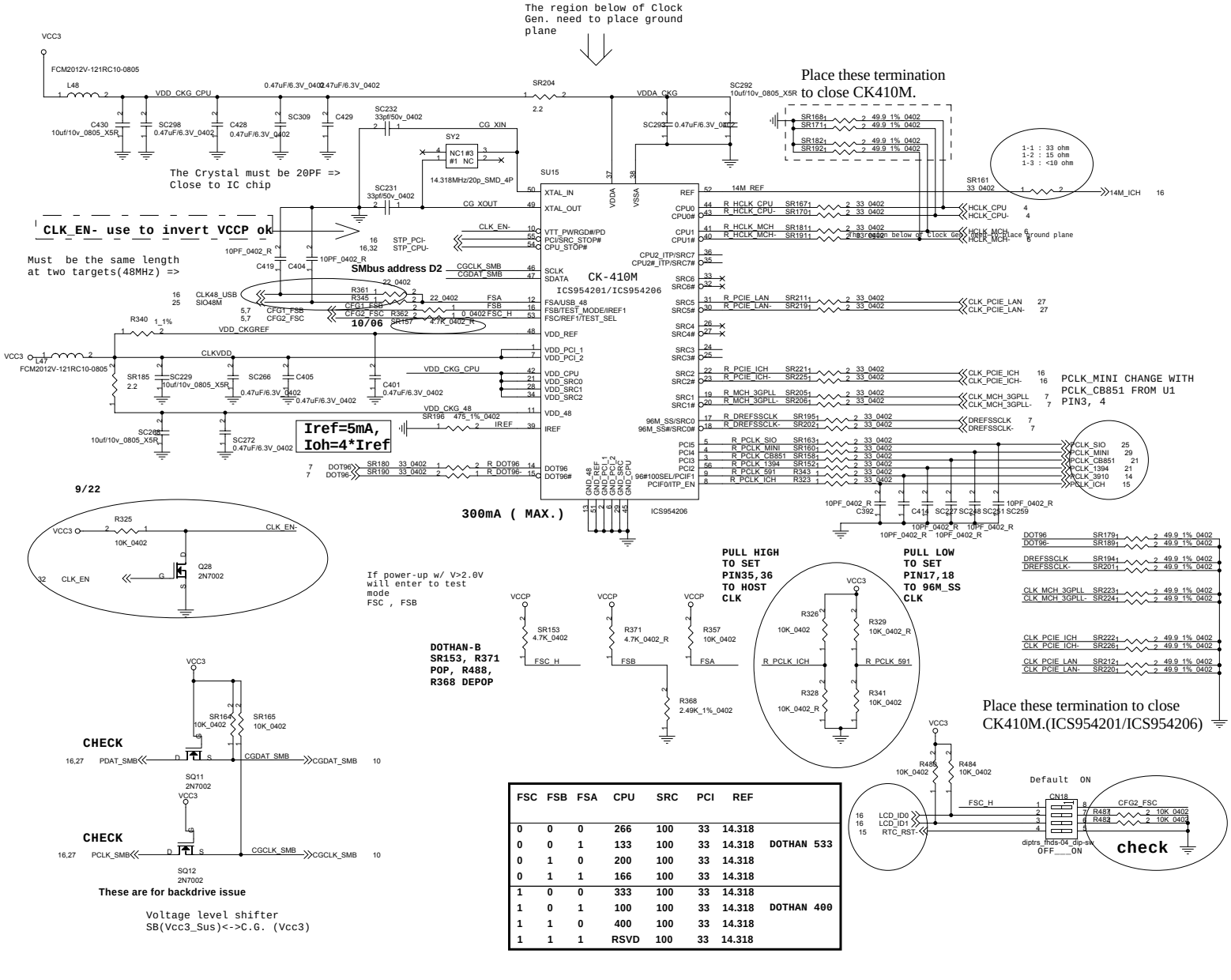
Device	
SODIMM	**1010 000X b**
Clock Gen	**1101 001x b**

Elitegroup Computer Systems

Title: **SYSTEM INFO**

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 2 of 37



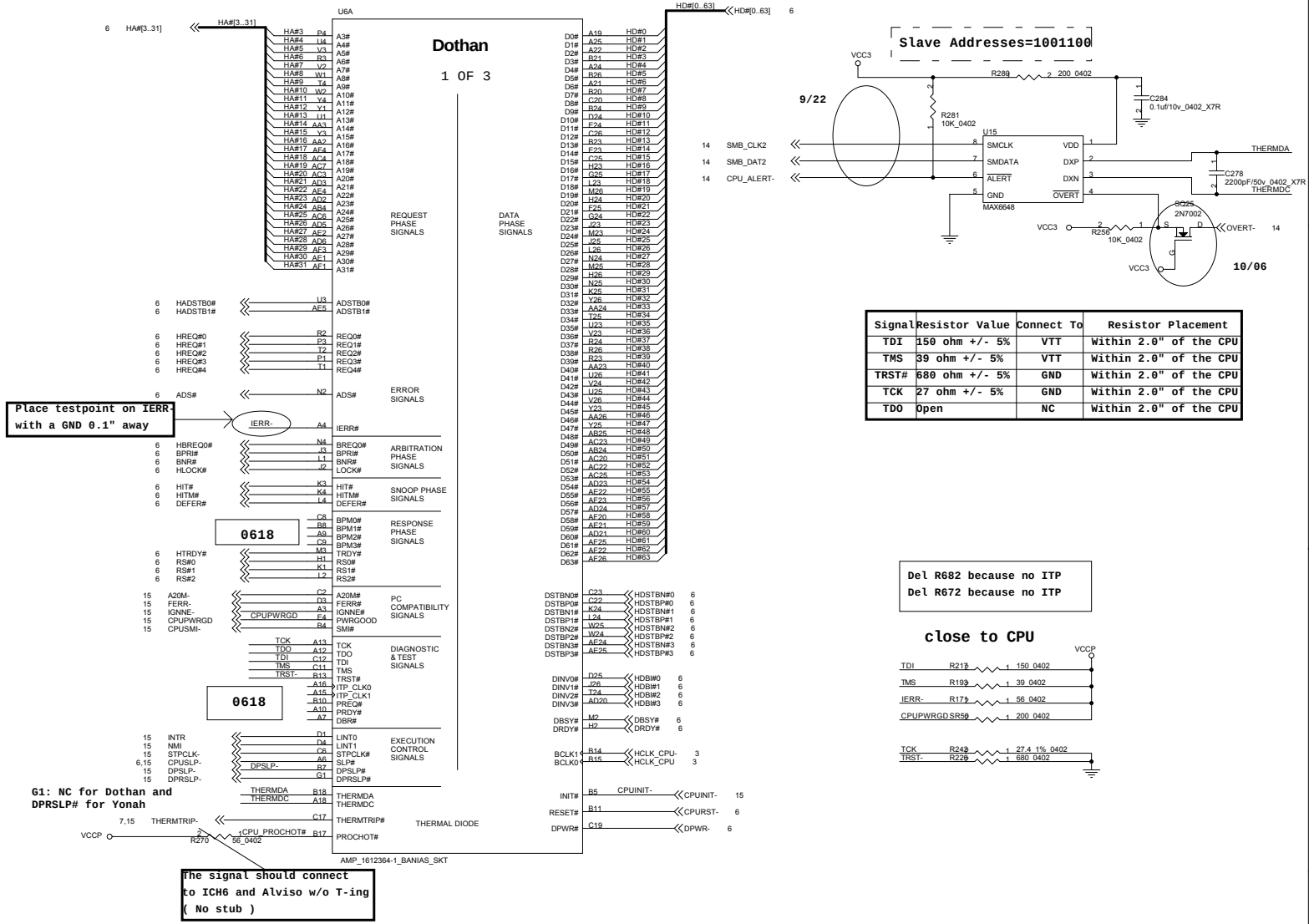
FSC	FSB	FSA	CPU	SRC	PCI	REF	
0	0	0	266	100	33	14.318	
0	0	1	133	100	33	14.318	DOTHAN 533
0	1	0	200	100	33	14.318	
0	1	1	166	100	33	14.318	
1	0	0	333	100	33	14.318	
1	0	1	100	100	33	14.318	DOTHAN 400
1	1	0	400	100	33	14.318	
1	1	1	RSVD	100	33	14.318	

Elitegroup Computer Systems

Title: CLOCK GENERATOR

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 3 of 37



Signal	Resistor Value	Connect To	Resistor Placement
TDI	150 ohm +/- 5%	VTT	Within 2.0" of the CPU
TMS	39 ohm +/- 5%	VTT	Within 2.0" of the CPU
TRST#	680 ohm +/- 5%	GND	Within 2.0" of the CPU
TCK	27 ohm +/- 5%	GND	Within 2.0" of the CPU
TDO	Open	NC	Within 2.0" of the CPU

Del R682 because no ITP
Del R672 because no ITP

close to CPU

Elitegroup Computer Systems

Title: Dothan (HOST BUS)

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 4 of 37

VCC_CORE
+VCCP
+1.8V

Place voltage divider within 0.5" of GTLREF pin

Place pulldown resistors within 0.5" of COMP pins

SR98 2 27.4 1% 0402 COMP0
SR99 2 54.9 1% 0402 COMP1
SR36 2 27.4 1% 0402 COMP2
SR37 2 54.9 1% 0402 COMP3

VCCP
SR101 1K_1%_0402
SR100 2K_1%_0402
GTLREF0

TEST1
TEST2
R176 1K_0402_R
SR97 1K_0402_R

VCC1.8V
SC161 10nF/25V_X7R
SC159 10uF/16V_1206_X5R

VCORE

SC146 SC143 SC147 SC92 C283 SC57 SC141 SC114 SC127 C254 SC101 C264 SC145 C247 SC58 SC42 SC144 C221 C273 SC88 — 10uf/10v_0805_X5R

SC59 SC126 SC77 C256 SC47 C272 C255 C249 SC43 SC73 SC117 C259 SC94 SC93 SC70 — 10uf/10v_0805_X5R

Total caps = 2633 uF
ESR = 15m ohm/5 // 5m ohm/25 // 5m ohm/15

U6B

Dothan
2 OF 3

COMP0 COMP1 COMP2 COMP3
GTLREF0
TEST1 TEST2
NC2 NC1
RSVD2 RSVD3 RSVD4 RSVD5
VCCA3 VCCA2 VCCA1 VCCA0
VCC00 … VCC71 (VCC01 VCC02 VCC03 VCC04 VCC05 VCC06 VCC07 VCC08 VCC09 VCC10 VCC11 VCC12 VCC13 VCC14 VCC15 VCC16 VCC17 VCC18 VCC19 VCC20 VCC21 VCC22 VCC23 VCC24 VCC25 VCC26 VCC27 VCC28 VCC29 VCC30 VCC31 VCC32 VCC33 VCC34 VCC35 VCC36 VCC37 VCC38 VCC39 VCC40 VCC41 VCC42 VCC43 VCC44 VCC45 VCC46 VCC47 VCC48 VCC49 VCC50 VCC51 VCC52 VCC53 VCC54 VCC55 VCC56 VCC57 VCC58 VCC59 VCC60 VCC61 VCC62 VCC63 VCC64 VCC65 VCC66 VCC67 VCC68 VCC69 VCC70)
POWER, GROUND, RESERVED SIGNALS
VSS00 … VSS99 (VSS01 VSS02 VSS03 VSS04 VSS05 VSS06 VSS07 VSS08 VSS09 VSS10 VSS11 VSS12 VSS13 VSS14 VSS15 VSS16 VSS17 VSS18 VSS19 VSS20 VSS21 VSS22 VSS23 VSS24 VSS25 VSS26 VSS27 VSS28 VSS29 VSS30 VSS31 VSS32 VSS33 VSS34 VSS35 VSS36 VSS37 VSS38 VSS39 VSS40 VSS41 VSS42 VSS43 VSS44 VSS45 VSS46 VSS47 VSS48 VSS49 VSS50 VSS51 VSS52 VSS53 VSS54 VSS55 VSS56 VSS57 VSS58 VSS59 VSS60 VSS61 VSS62 VSS63 VSS64 VSS65 VSS66 VSS67 VSS68 VSS69 VSS70 VSS71 VSS72 VSS73 VSS74 VSS75 VSS76 VSS77 VSS78 VSS79 VSS80 VSS81 VSS82 VSS83 VSS84 VSS85 VSS86 VSS87 VSS88 VSS89 VSS90 VSS91 VSS92 VSS93 VSS94 VSS95 VSS96 VSS97 VSS98 VSS99)

AMP_1612364-1_BANIAS_SKT

32 CPU_VID[0..5] → CPU_VID[0..5]

U6C

Dothan
3 OF 3
POWER, GROUND AND NC

VCCP0 … VCCP24, VCCQ0 VCCQ1
VSS100 … VSS191

CPU_VID0 CPU_VID1 CPU_VID2 CPU_VID3 CPU_VID4 CPU_VID5 → VID0 VID1 VID2 VID3 VID4 VID5

VID

0713

32 VCC_SENSE
R168 54.9 1% 0402 R
R159 54.9 1% 0402 R
VCCSENSE
VSSSENSE
32 VSS_SENSE

BSEL0 BSEL1
32 CPSI-
PSI

AMP_1612364-1_BANIAS_SKT

BSEL1 R254 1 0 0402
BSEL0 R266 1 0 0402
CFG1_FSB 3,7
CFG2_FSC 3,7

DOTHAN-A NC
DOTHAN-B POP

VCCP
SC201 150UF/4V_B
SC48 SC51 SC131 SC50 SC49 SC133 SC83 SC317 SC132 SC102 — 0.1uf/10v_0402_X7R

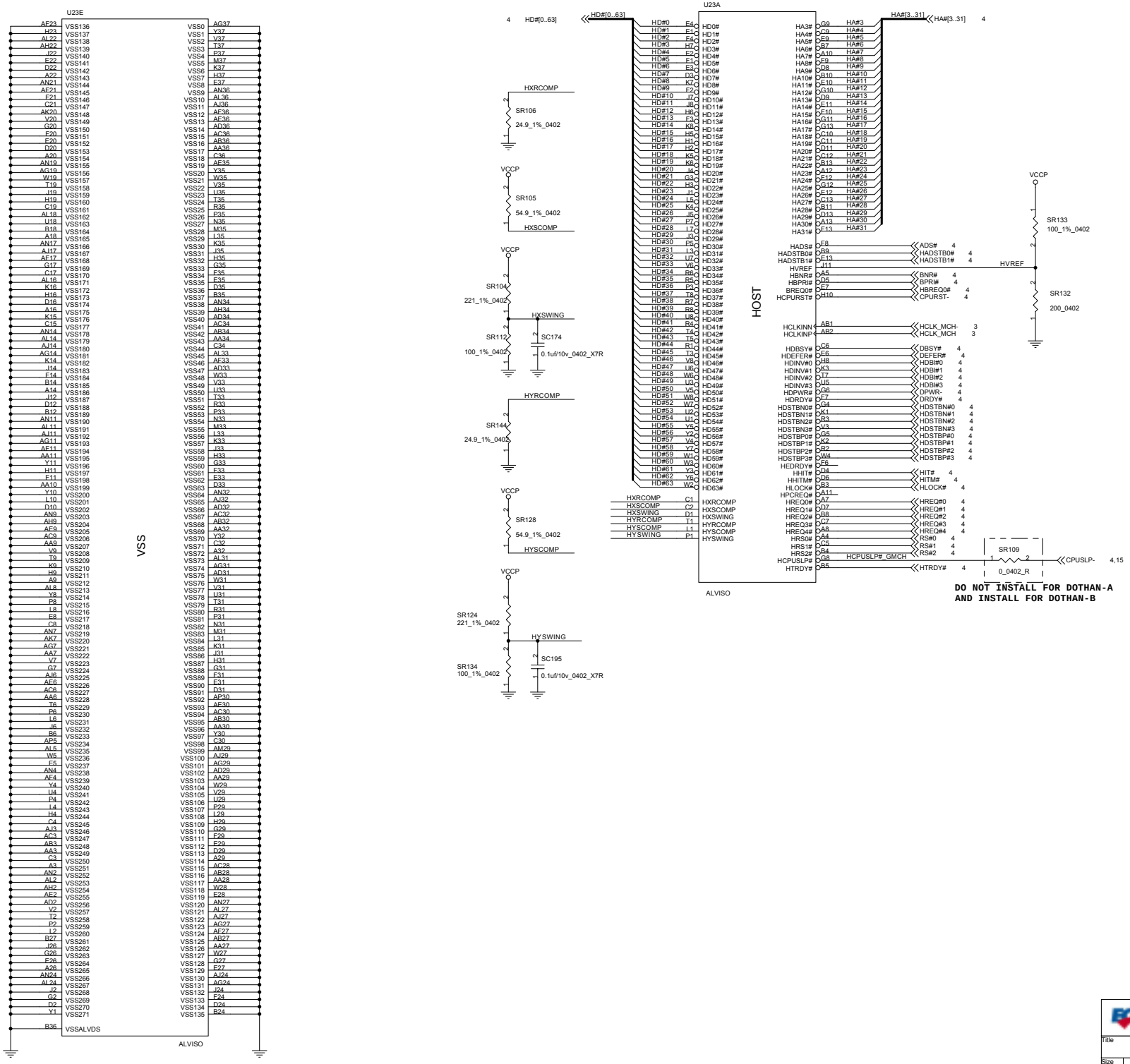
0628

Elitegroup Computer Systems

Title: **Dothan (POWER/NC)**

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 5 of 37

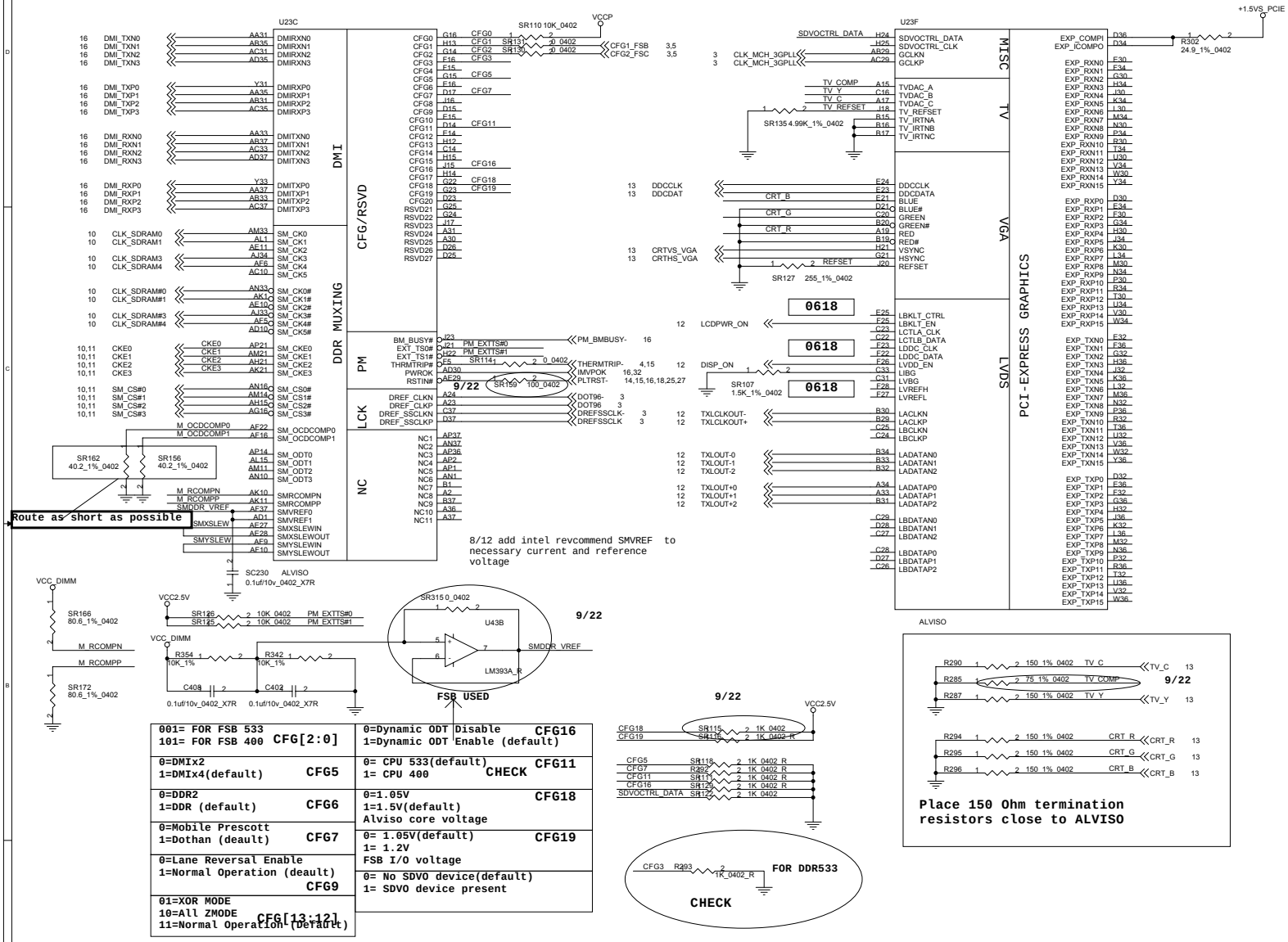


Elitegroup Computer Systems

Title: ALVISO_A (HOST)

Size	Document Number	Rev
C	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 6 of 37

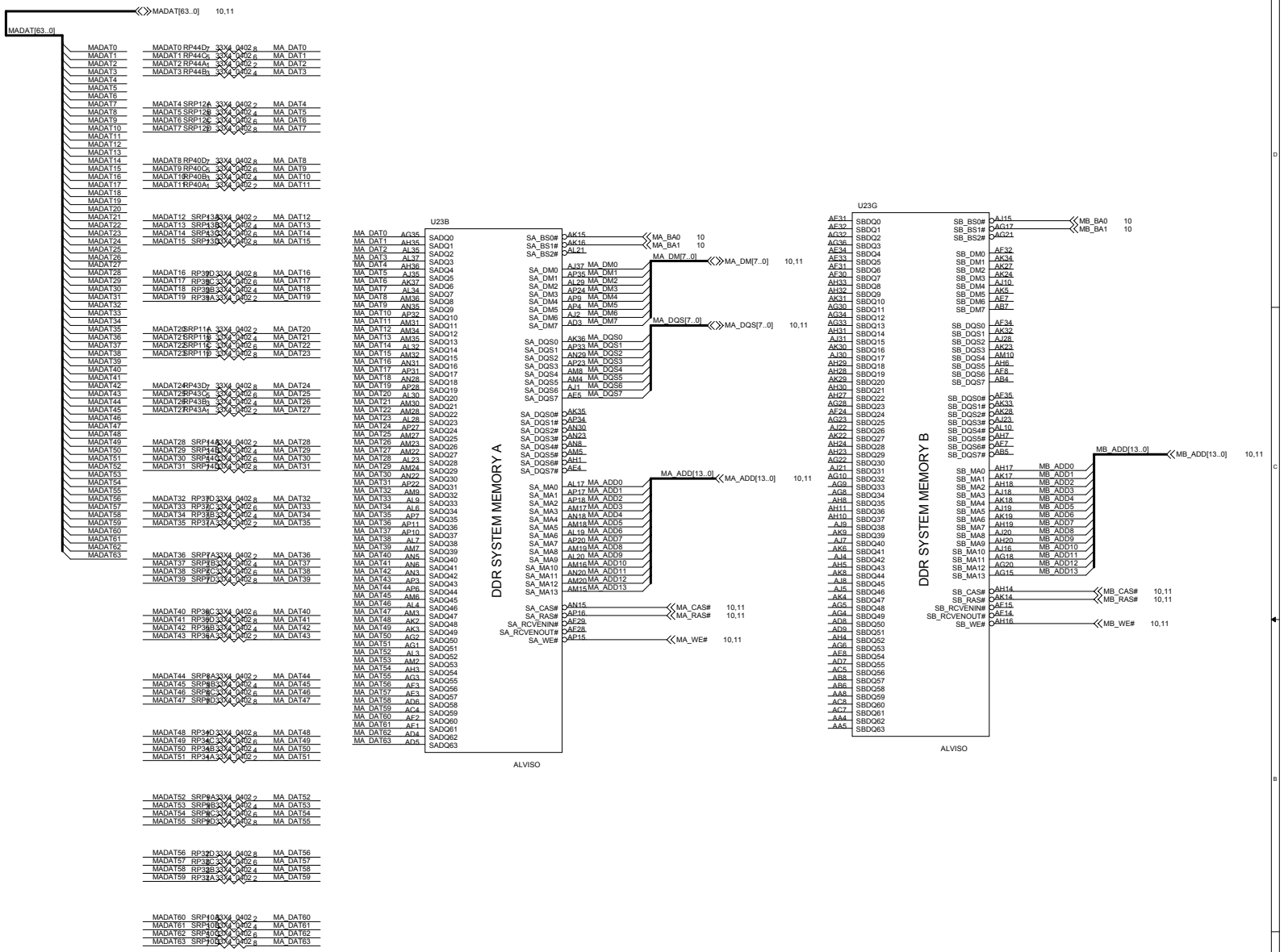


Elitegroup Computer Systems

Title: ALVISO_B (VGA,DMI)

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 7 of 37



Elitegroup Computer Systems

Title: ALVISO_C (DDR)

Size	Document Number	Rev
B	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 8 of 37

+VCC_GMCH_CORE -->1.5V
+VCCP
+2.5V
VCC_DIMM

L3,L4,L5
150ohm@100Mhz

0618

0702

0714

10/06

Note: All VCCSM pins shorted internally.

Note: All VCCSM pins shorted internally.

close to PIN D19

Route VSSA_TVBG gnd from GMCH to decoupling cap ground lead and then connect to the gnd plane

Layout note: VSSA_CRTDAC
Route caps within 250mil of Alviso.
Route FB within 3" of Alviso.

Route VSSA_CRTDAC gnd from GMCH to decoupling cap ground lead and then connect to the gnd plane

close to PIN B28,A28,A27

40mA
45mA
45mA
40mA
150ohm@100Mhz

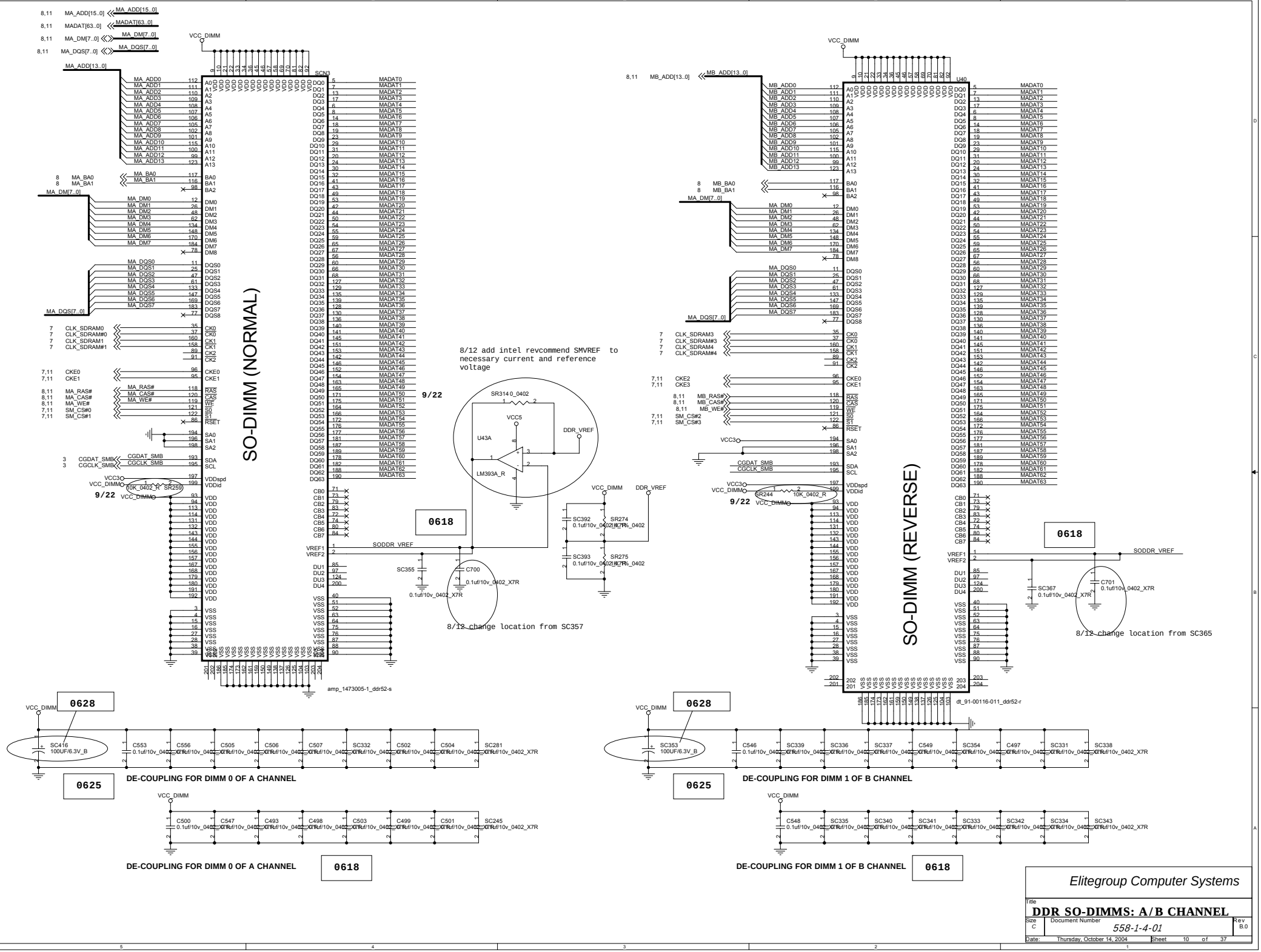
POWER
NCTF
ALVISO
ALVISO

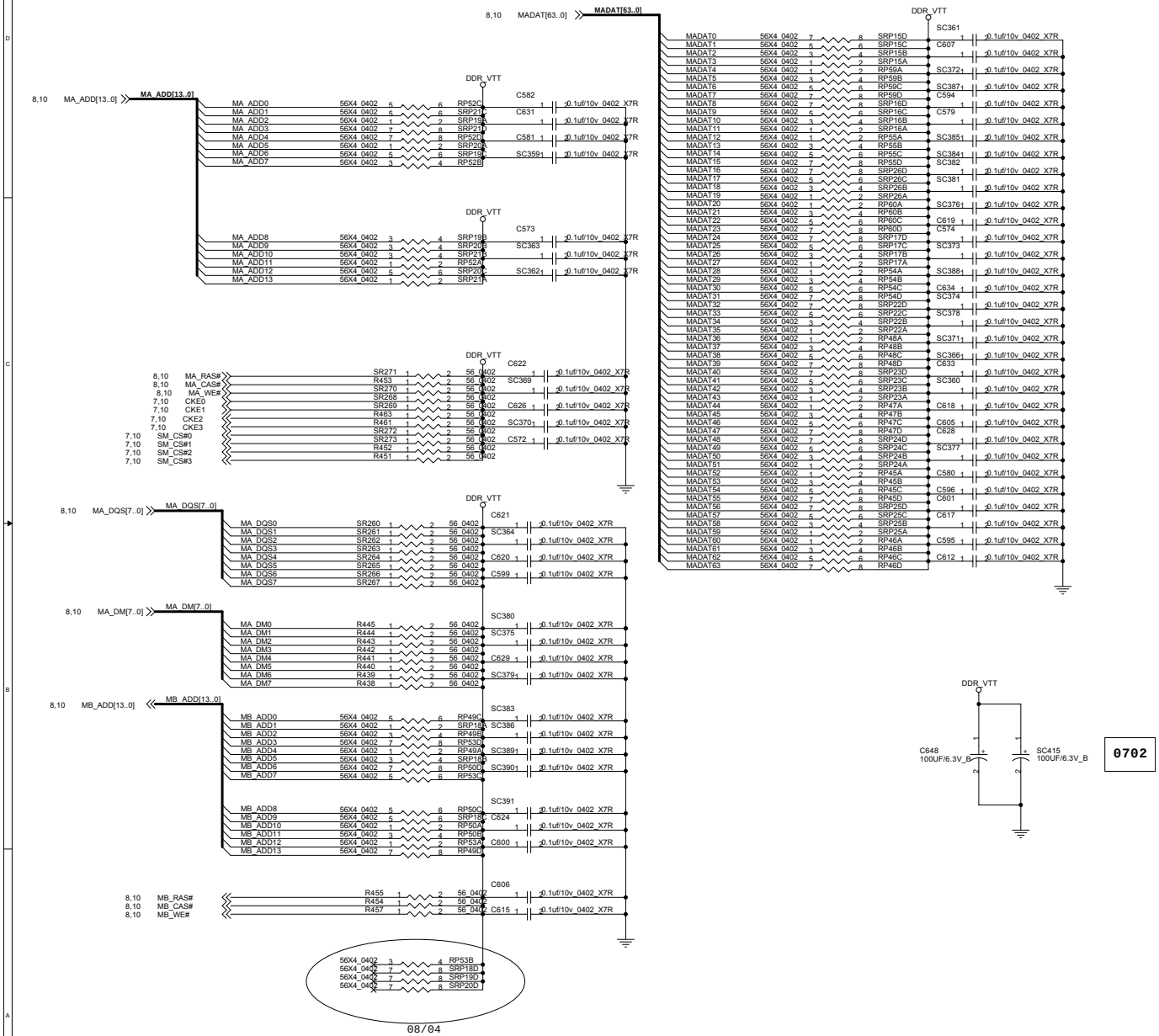
Elitegroup Computer Systems

Title: ALVISO_D (POWER)

Size: C | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 9 of 37


SO-DIMM (NORMAL)
SCN3
amp_1473005-1_ddr52-s
8,11 MA_ADD[15..0]
8,11 MADAT[63..0]
8,11 MA_DM[7..0]
8,11 MA_DQS[7..0]
MA_ADD[13..0]
MA_DM[7..0]
MA_DQS[7..0]
VCC_DIMM
8 MA_BA0
8 MA_BA1
7 CLK_SDRAM0
7 CLK_SDRAM#0
7 CLK_SDRAM1
7 CLK_SDRAM#1
7,11 CKE0
7,11 CKE1
8,11 MA_RAS#
8,11 MA_CAS#
8,11 MA_WE#
7,11 SM_CS#0
7,11 SM_CS#1
3 CGDAT_SMB
3 CGCLK_SMB
10K_0402_R SR259
9/22
8/12 add intel revcommend SMVREF to necessary current and reference voltage
SR314 0_0402
VCC5
U43A
LM393A_R
DDR_VREF
0618
SODDR_VREF
SC355
C700
0.1uf/10v_0402_X7R
SC392
SC393
SR274
SR275
1%_0402
8/12 change location from SC357
SO-DIMM (REVERSE)
U40
MB_ADD[13..0]
MB_ADD0
MB_ADD1
MB_ADD2
MB_ADD3
MB_ADD4
MB_ADD5
MB_ADD6
MB_ADD7
MB_ADD8
MB_ADD9
MB_ADD10
MB_ADD11
MB_ADD12
MB_ADD13
MB_BA0
MB_BA1
MA_DM0
MA_DM1
MA_DM2
MA_DM3
MA_DM4
MA_DM5
MA_DM6
MA_DM7
MA_DQS0
MA_DQS1
MA_DQS2
MA_DQS3
MA_DQS4
MA_DQS5
MA_DQS6
MA_DQS7
CLK_SDRAM3
CLK_SDRAM#3
CLK_SDRAM4
CLK_SDRAM#4
CKE2
CKE3
MB_RAS#
MB_CAS#
MB_WE#
SM_CS#2
SM_CS#3
CGDAT_SMB
CGCLK_SMB
SR244
10K_0402_R
9/22
0618
SODDR_VREF
SC367
C701
0.1uf/10v_0402_X7R
8/12 change location from SC365
dt_91-00116-011_ddr52-r
0628
SC416
100UF/6.3V_B
SC353
0625
DE-COUPLING FOR DIMM 0 OF A CHANNEL
DE-COUPLING FOR DIMM 1 OF B CHANNEL
C553
C556
C505
C506
C507
SC332
C502
C504
SC281
C546
SC339
SC336
SC337
C549
SC354
C497
SC331
SC338
C500
C547
C493
C498
C503
C499
C501
SC245
C548
SC335
SC340
SC341
SC333
SC342
SC334
SC343
0.1uf/10v_0402_X7R
Elitegroup Computer Systems
Title
DDR SO-DIMMS: A/B CHANNEL
Size C
Document Number 558-1-4-01
Rev B.0
Date: Thursday, October 14, 2004
Sheet 10 of 37



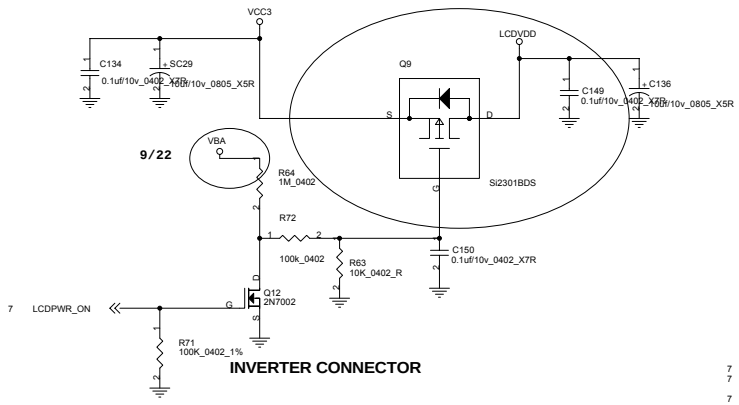
Elitegroup Computer Systems

Title: DDR TERMINATION: A CHANNEL

Size	Document Number	Rev
B	558-1-4-01	B.0

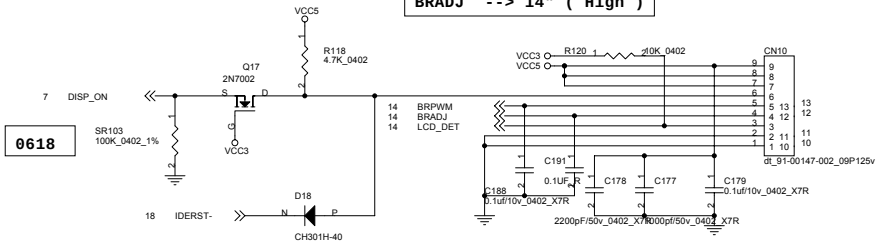
Date: Thursday, October 14, 2004 Sheet 11 of 37

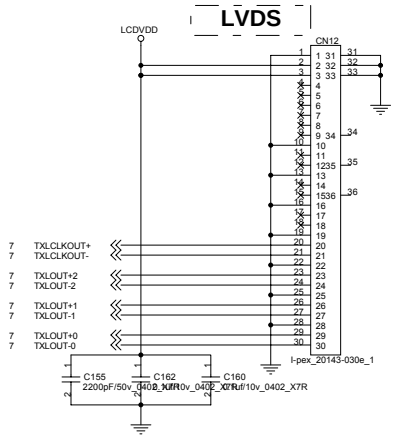
07/30 modify



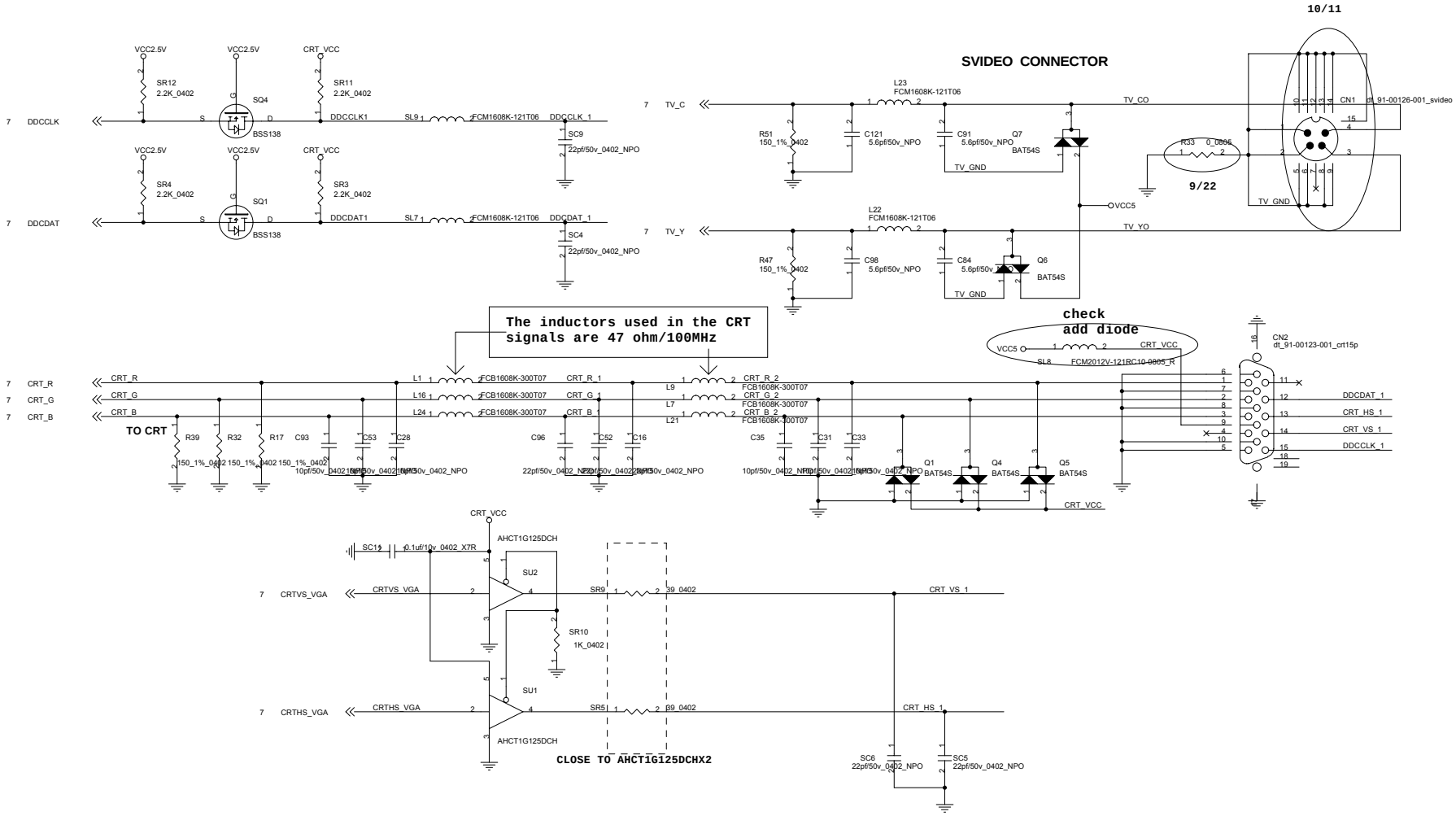
INVERTER CONNECTOR

BRPWM--> 15" (Low)
BRADJ --> 14" (High)





Elitegroup Computer Systems			
Title: LVDS PANEL CONN			
Size: B	Document Number: 558-1-4-01		Rev: B.0
Date: Thursday, October 14, 2004	Sheet 12 of 37		

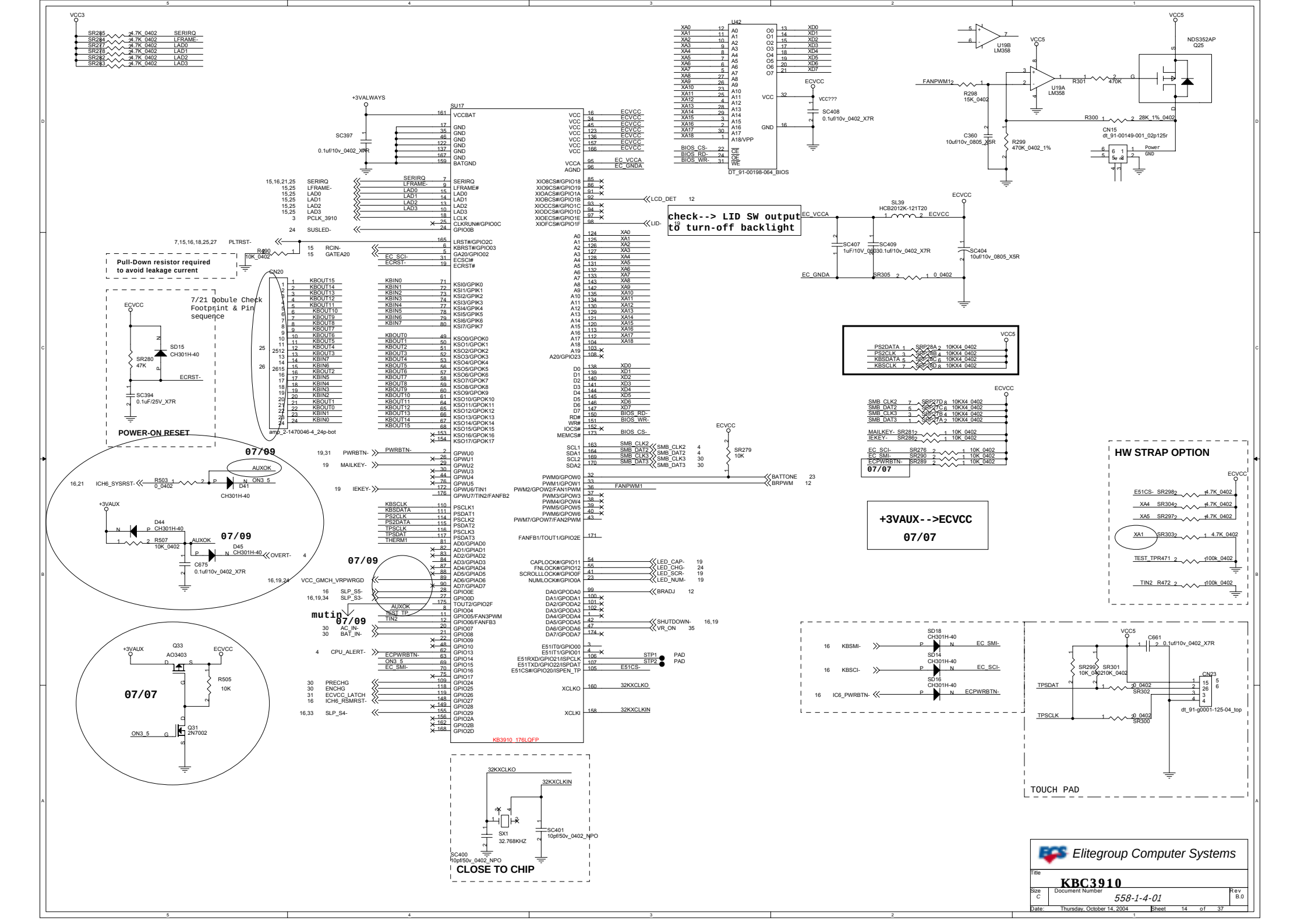


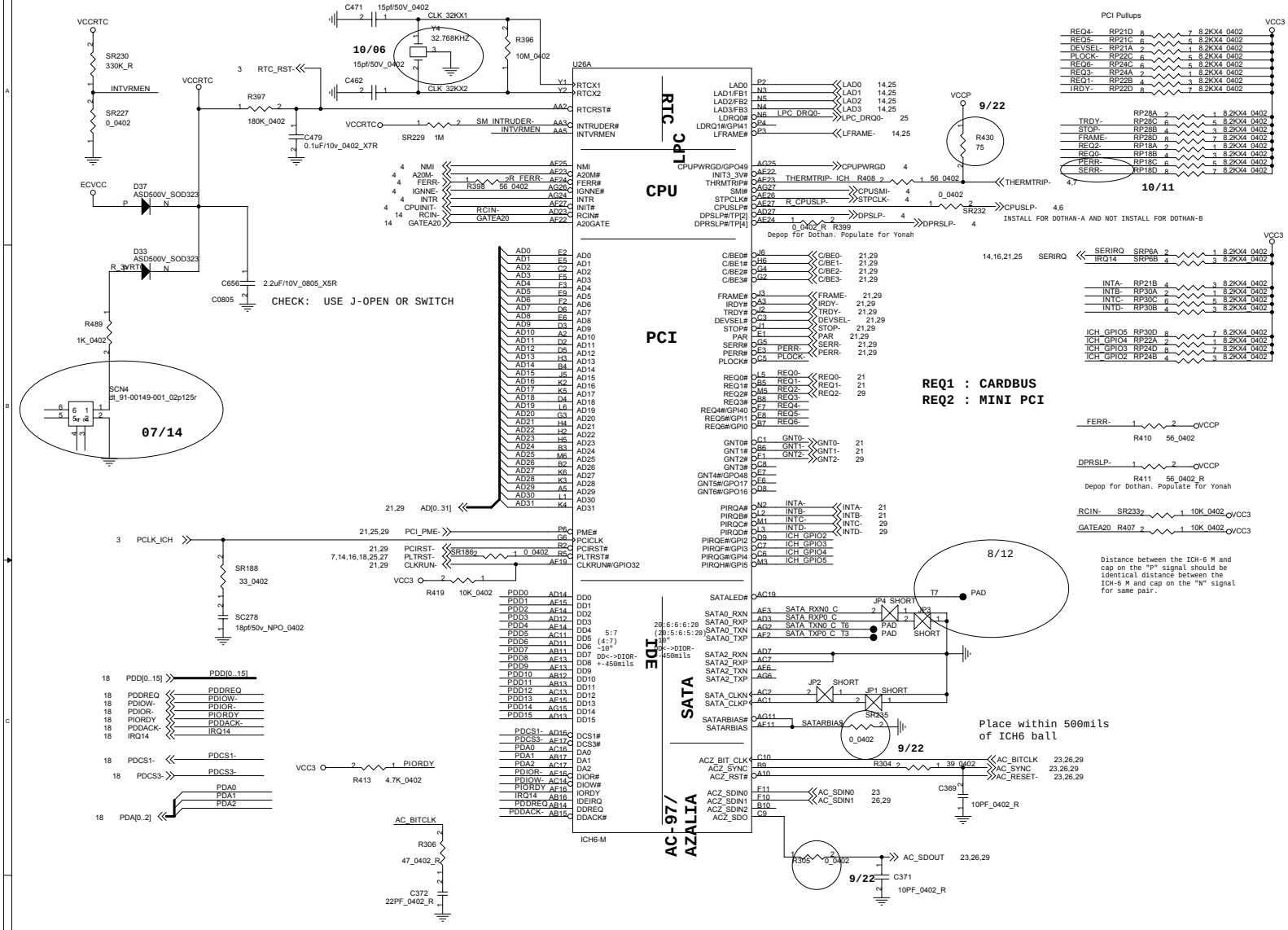
Elitegroup Computer Systems

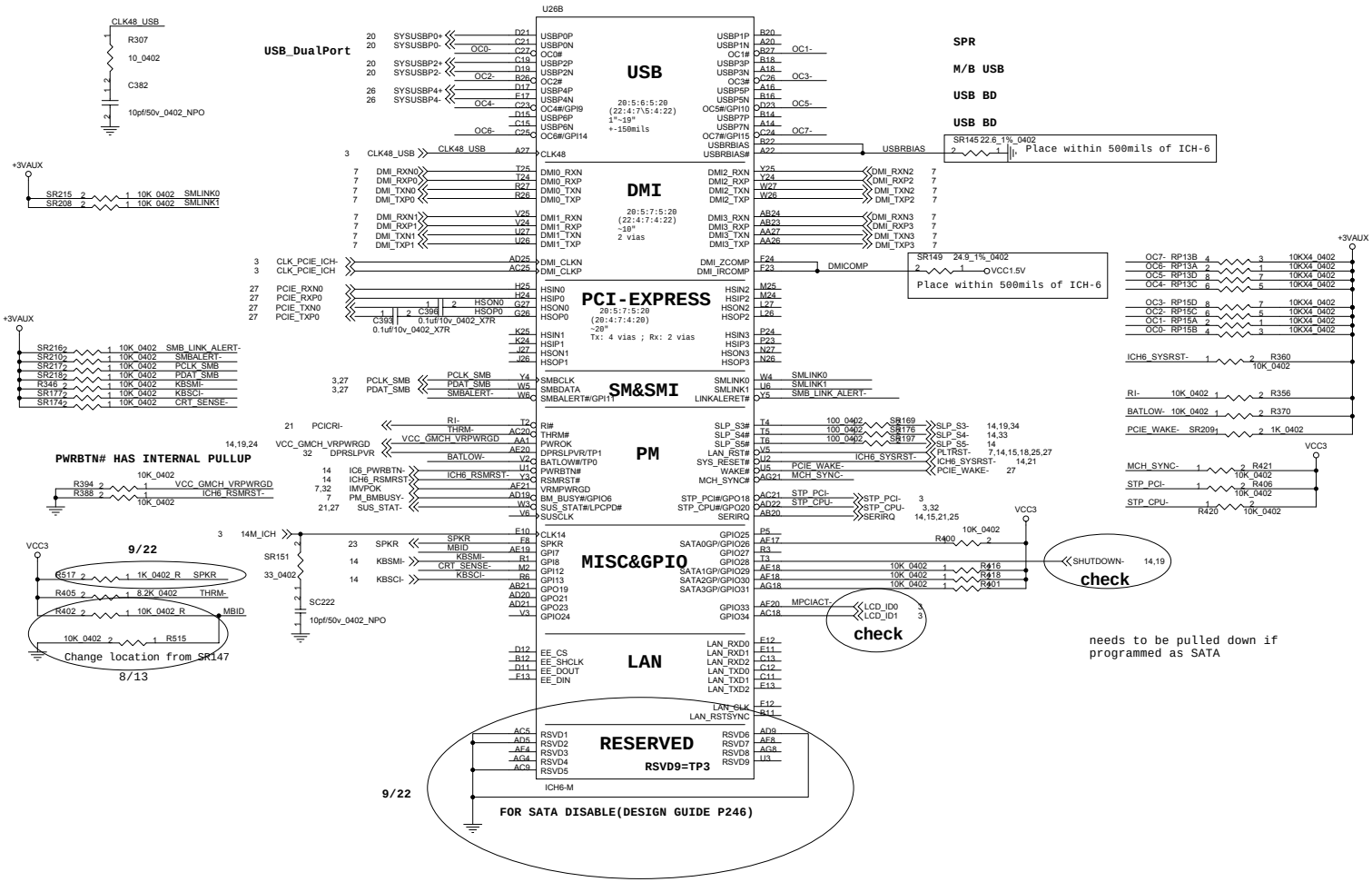
Title: S-VIDEO & CRT CON

Size	Document Number	Rev
C	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 13 of 37


SU17
KB3910_176LQFP
DT_91-00198-064_BIOS
check--> LID SW output to turn-off backlight
Pull-Down resistor required to avoid leakage current
7/21 Dobule Check Footprint & Pin sequence
POWER-ON RESET
07/09
mutin
+3VAUX-->ECVCC
HW STRAP OPTION
TOUCH PAD
CLOSE TO CHIP
Elitegroup Computer Systems
KBC3910
558-1-4-01
Thursday, October 14, 2004
Sheet 14 of 37


RTC
LPC
CPU
PCI
IDE
SATA
AC-97/
AZALIA
ICH6-M
10/06
07/14
9/22
10/11
8/12
CHECK: USE J-OPEN OR SWITCH
REQ1 : CARDBUS
REQ2 : MINI PCI
Place within 500mils
of ICH6 ball
PCI Pullups
INSTALL FOR DOTHAN-A AND NOT INSTALL FOR DOTHAN-B
Depop for Dothan. Populate for Yonah
Distance between the ICH-6 M and
cap on the "P" signal should be
identical distance between the
ICH-6 M and cap on the "N" signal
for same pair.
Elitegroup Computer Systems
ICH6-M(CPU,PCI,IDE)
558-1-4-01
Thursday, October 14, 2004
Sheet 15 of 37

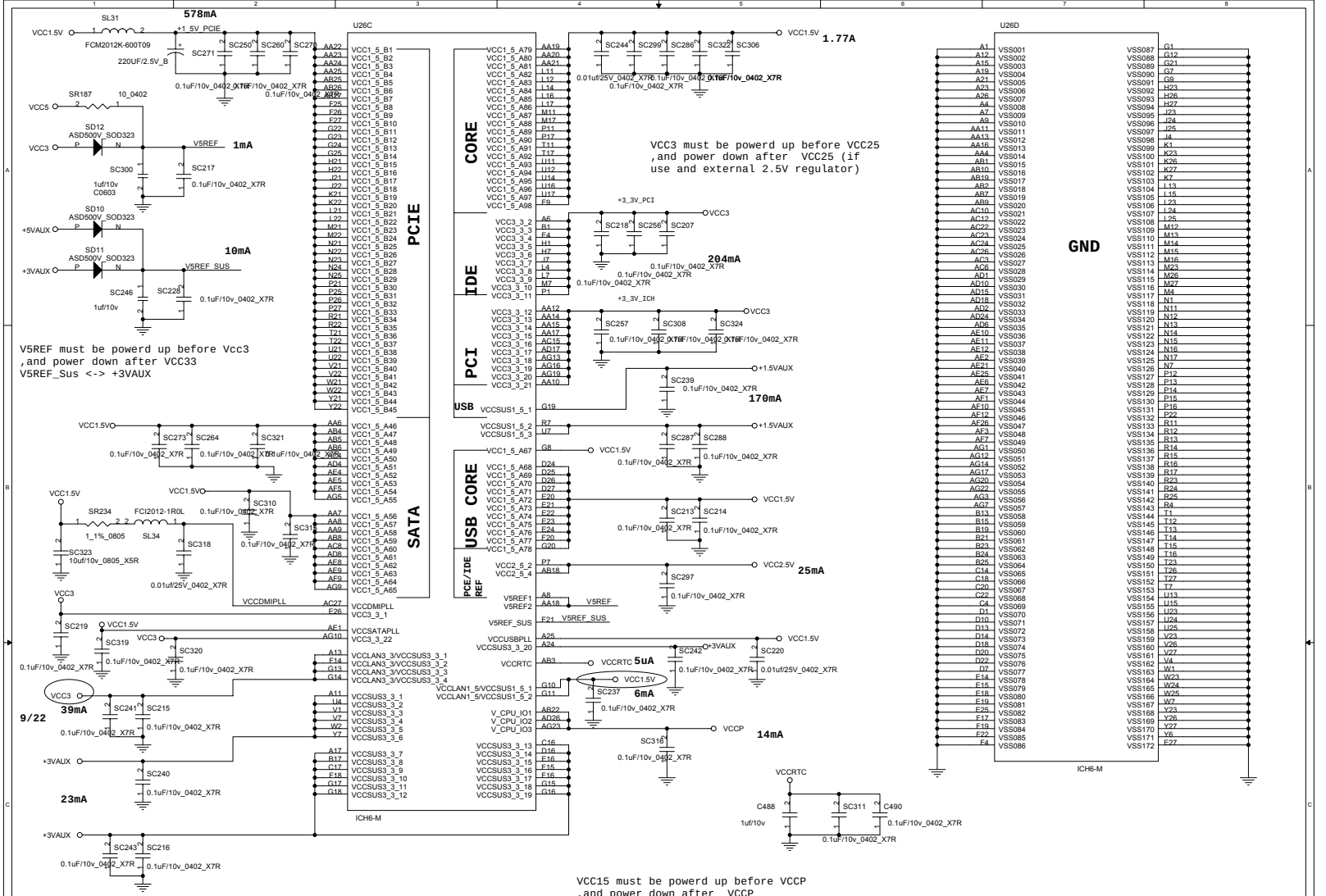


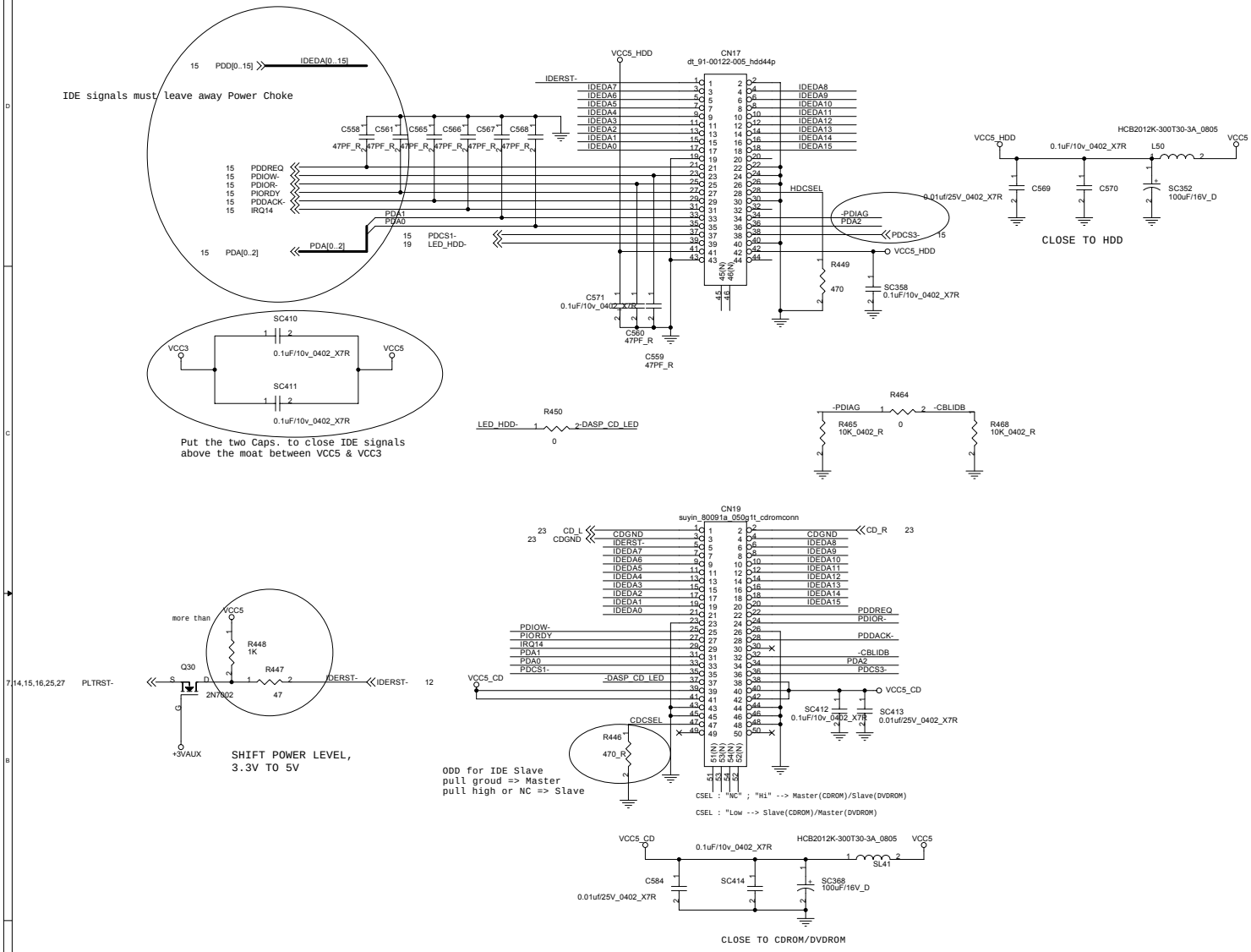
Elitegroup Computer Systems

Title: ICH6-M(USB,HUB)

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 16 of 37


578mA
SL31
FCM2012K-600T09
220UF/2.5V_B
+1.5V_PCIE
SC271
SC250
SC260
SC270
0.1uF/10v_0402_X7R
SR187
10_0402
SD12
ASD500V_SOD323
V5REF
1mA
SC300
1uf/10v
C0603
SC217
SD10
SD11
10mA
V5REF_SUS
SC246
SC228
V5REF must be powerd up before Vcc3
,and power down after VCC33
V5REF_Sus <-> +3VAUX
U26C
PCIE
SATA
CORE
IDE
PCI
USB
USB CORE
PCE/IDE
REF
ICH6-M
1.77A
SC244
SC299
SC286
SC322
SC306
VCC3 must be powerd up before VCC25
,and power down after VCC25 (if
use and external 2.5V regulator)
+3_3V_PCI
SC218
SC256
SC207
204mA
+3_3V_ICH
SC257
SC308
SC324
SC239
170mA
SC287
SC288
SC213
SC214
SC297
25mA
V5REF_SUS
SC242
SC220
5uA
SC237
6mA
SC316
14mA
SC273
SC264
SC321
SR234
FCI2012-1R0L
SL34
1_1%_0805
SC323
10uf/10v_0805_X5R
SC310
SC318
0.01uf/25V_0402_X7R
SC319
SC320
9/22
39mA
SC241
SC215
SC240
23mA
SC243
SC216
+3VAUX must be powerd up before +1.5VAUX ,and power down after
+1.5VAUX (if use and external 1.5V regulator)
VccLAN3_3 <-> VccLAN1_5
VCCRTC
C488
SC311
C490
VCC15 must be powerd up before VCCP
,and power down after VCCP
U26D
GND
Elitegroup Computer Systems
ICH6-M(POWER&GND)
558-1-4-01
Rev B.0
Thursday, October 14, 2004
Sheet 17 of 37

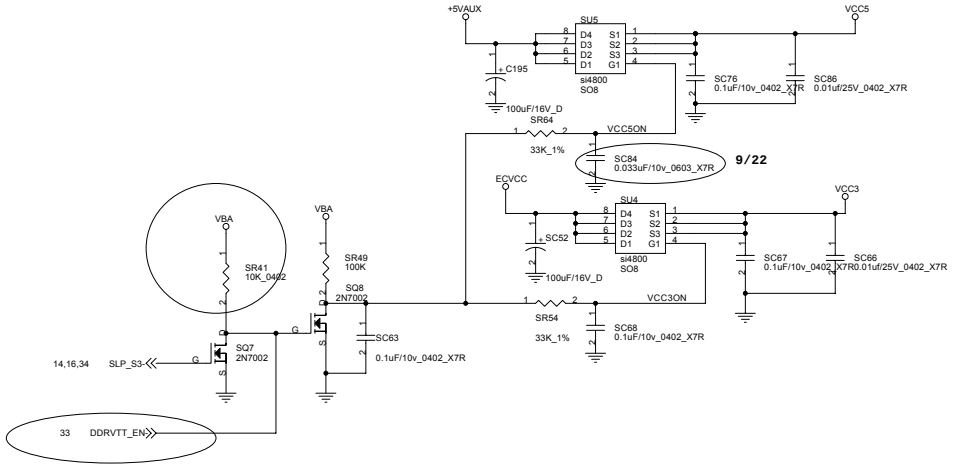


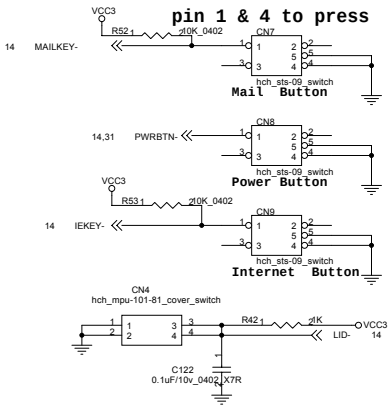
Elitegroup Computer Systems

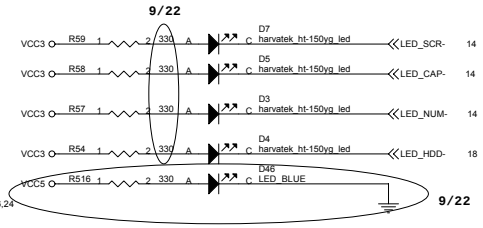
Title: **HDD & CDROM CONN.**

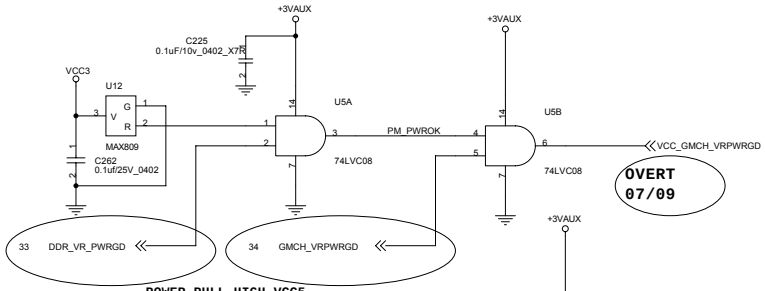
Size	Document Number	Rev
B	558-1-4-01	B.0

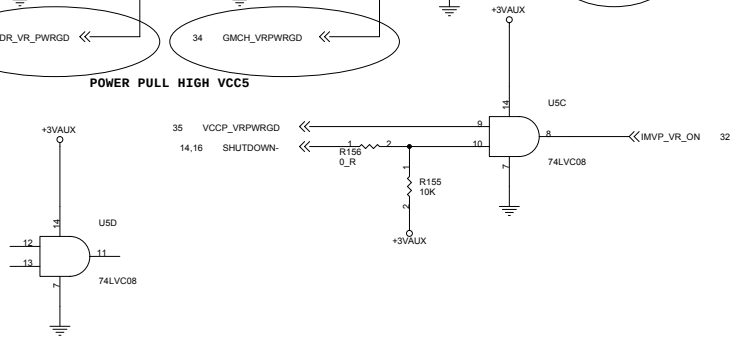
Date: Thursday, October 14, 2004 Sheet 18 of 37











Elitegroup Computer Systems

Title: RTC,VCC3,VCC5,SW,LED

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 19 of 37

ALL THESE CLOSE TO CONNECTOR

8/26 change F1 P/N: from
16-285-150370 to
16-200-150010

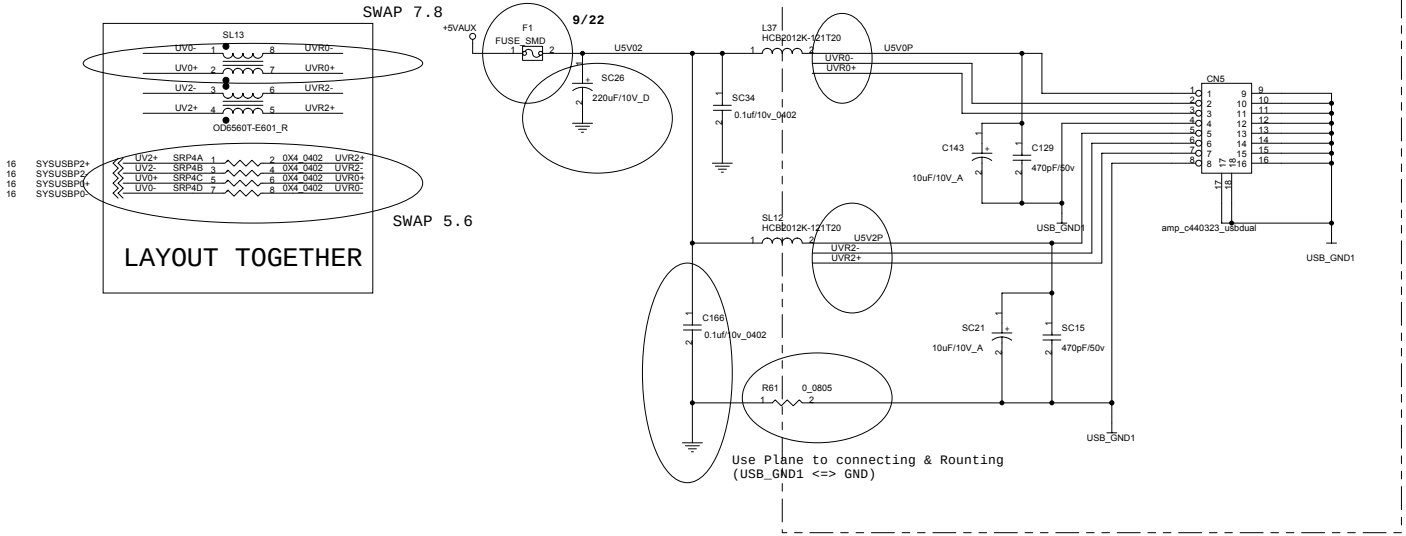
Two ports ,1.5A,at least 60 mils

SWAP 7.8

SWAP 5.6

LAYOUT TOGETHER

The dotted line is a moat for layout placement reference.
Pls Place the components of block into USB moat
Bead & resister are bridge

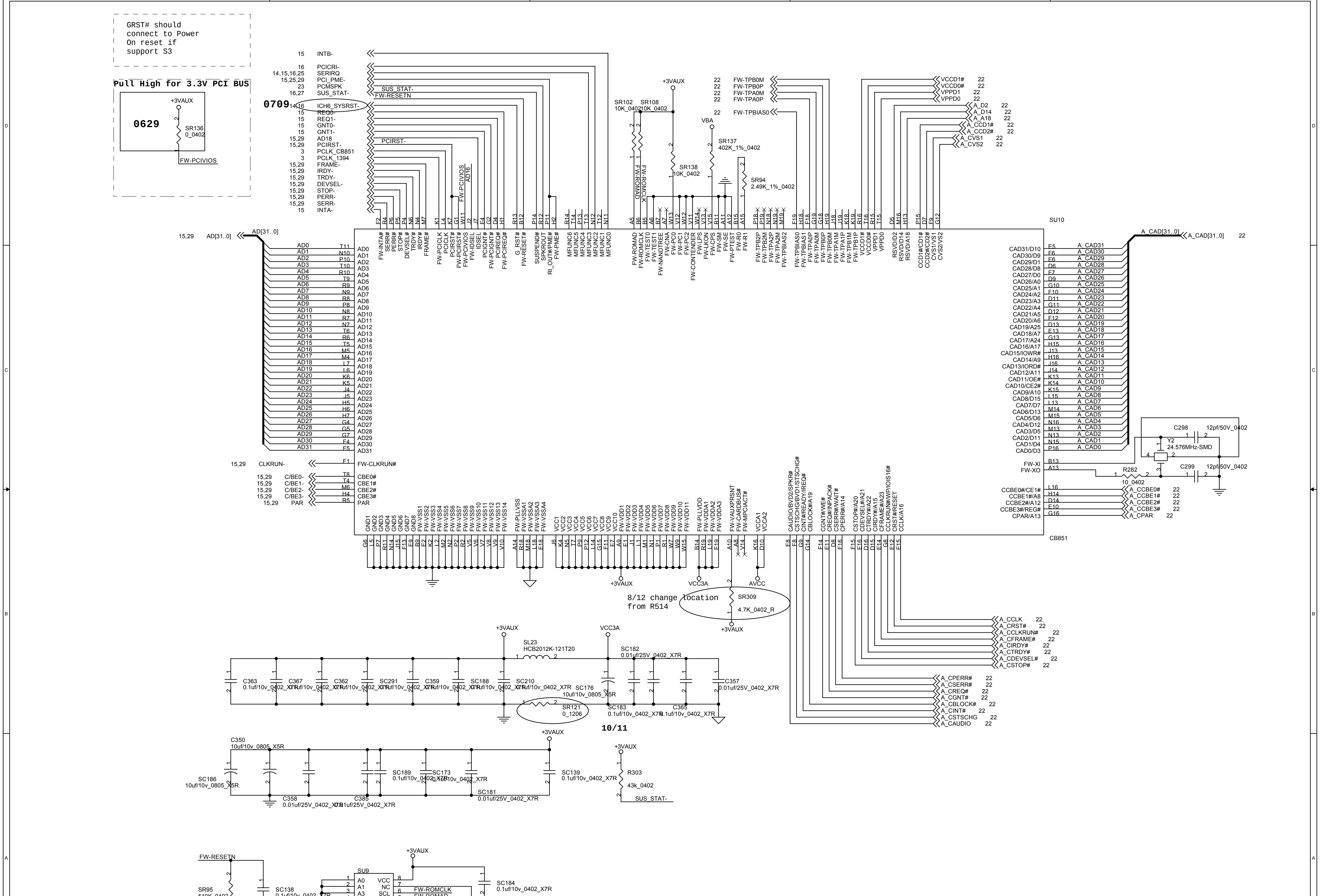


Elitegroup Computer Systems

Title: **USB PORT**

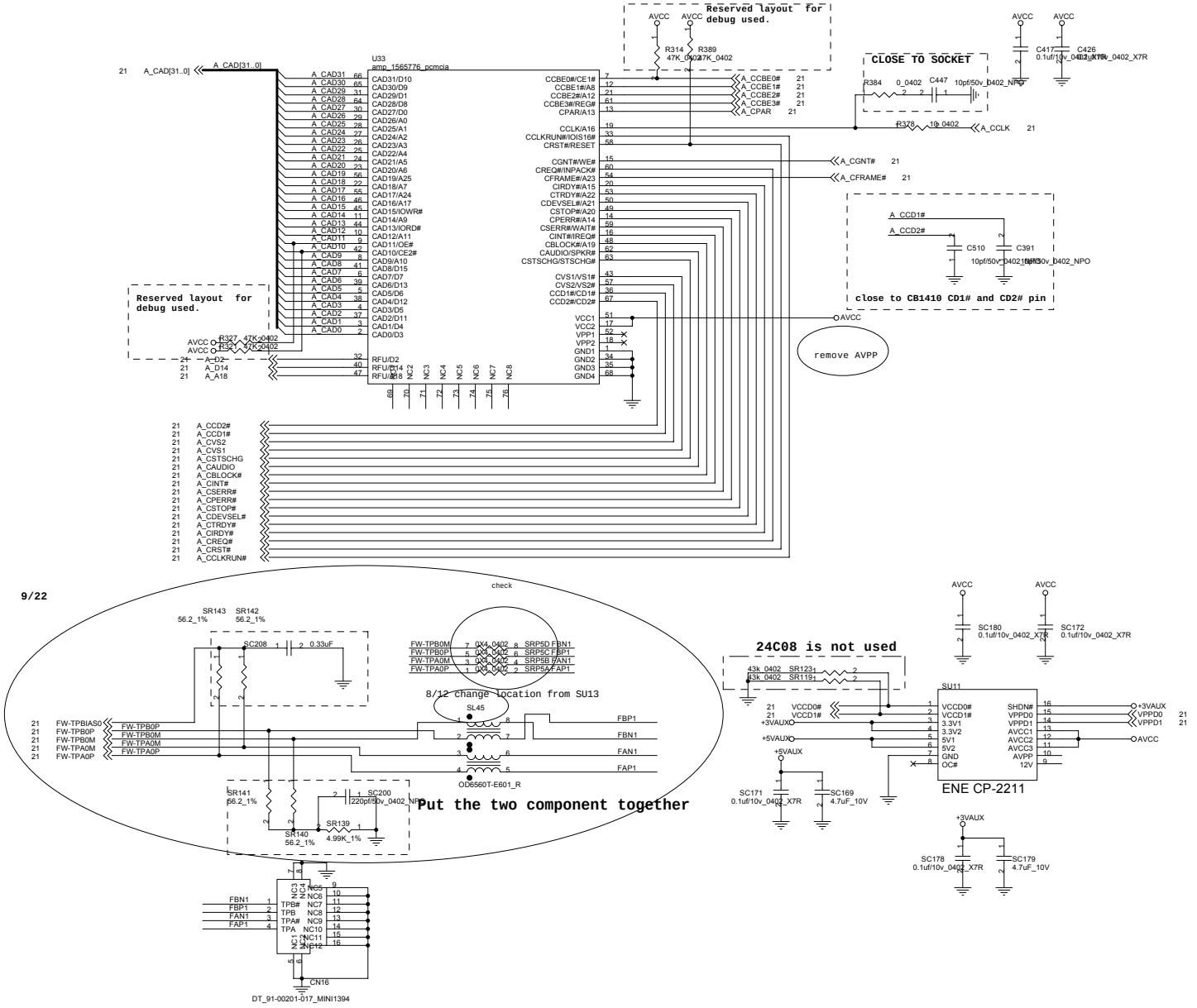
Size	Document Number	Rev
B	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 20 of 37



Elitegroup Computer Systems

Title	CB851_CARDBUS	
Size C	Document Number 558-1-4-01	Rev B.0
Date: Thursday, October 14, 2004	Sheet 21 of 37	

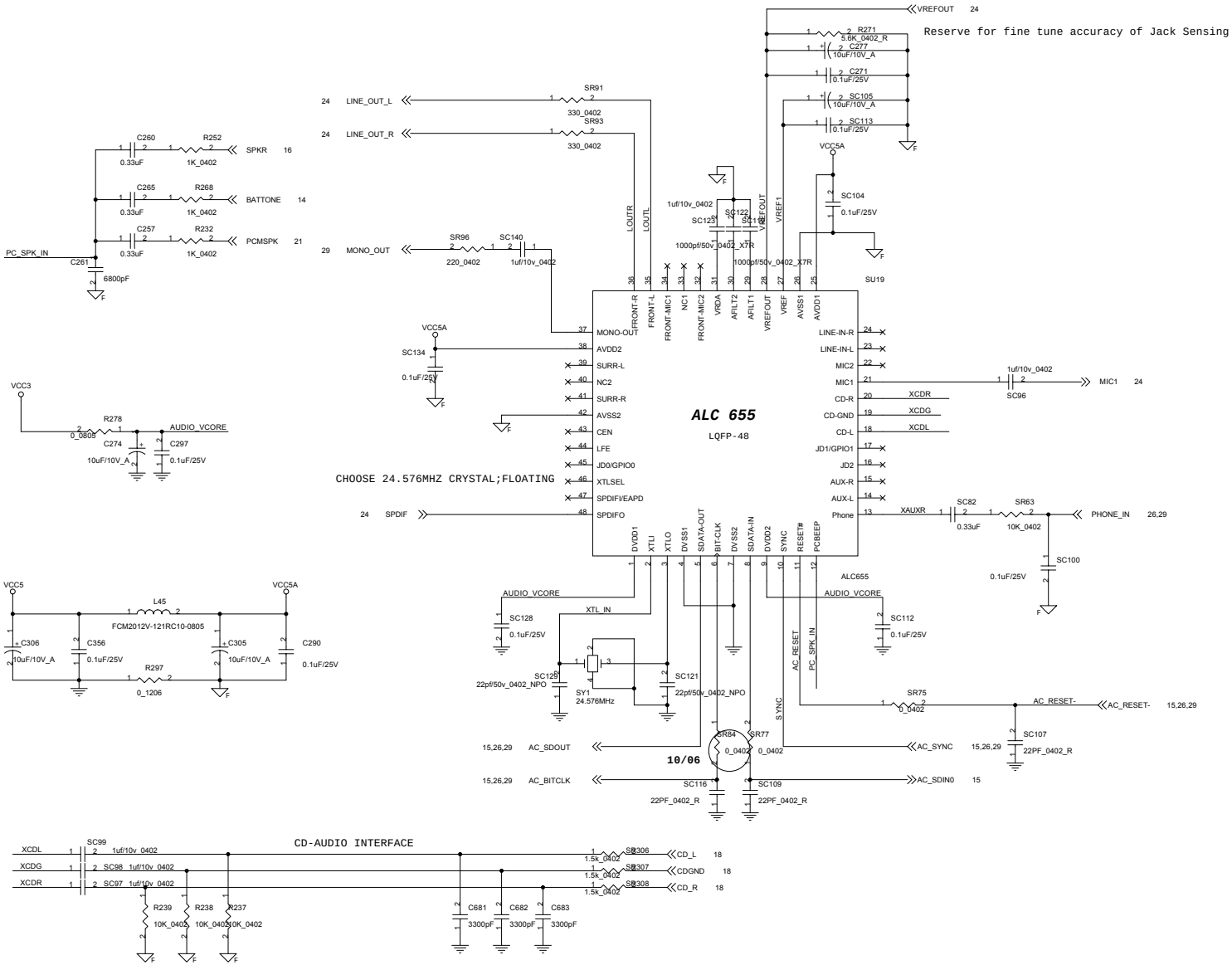


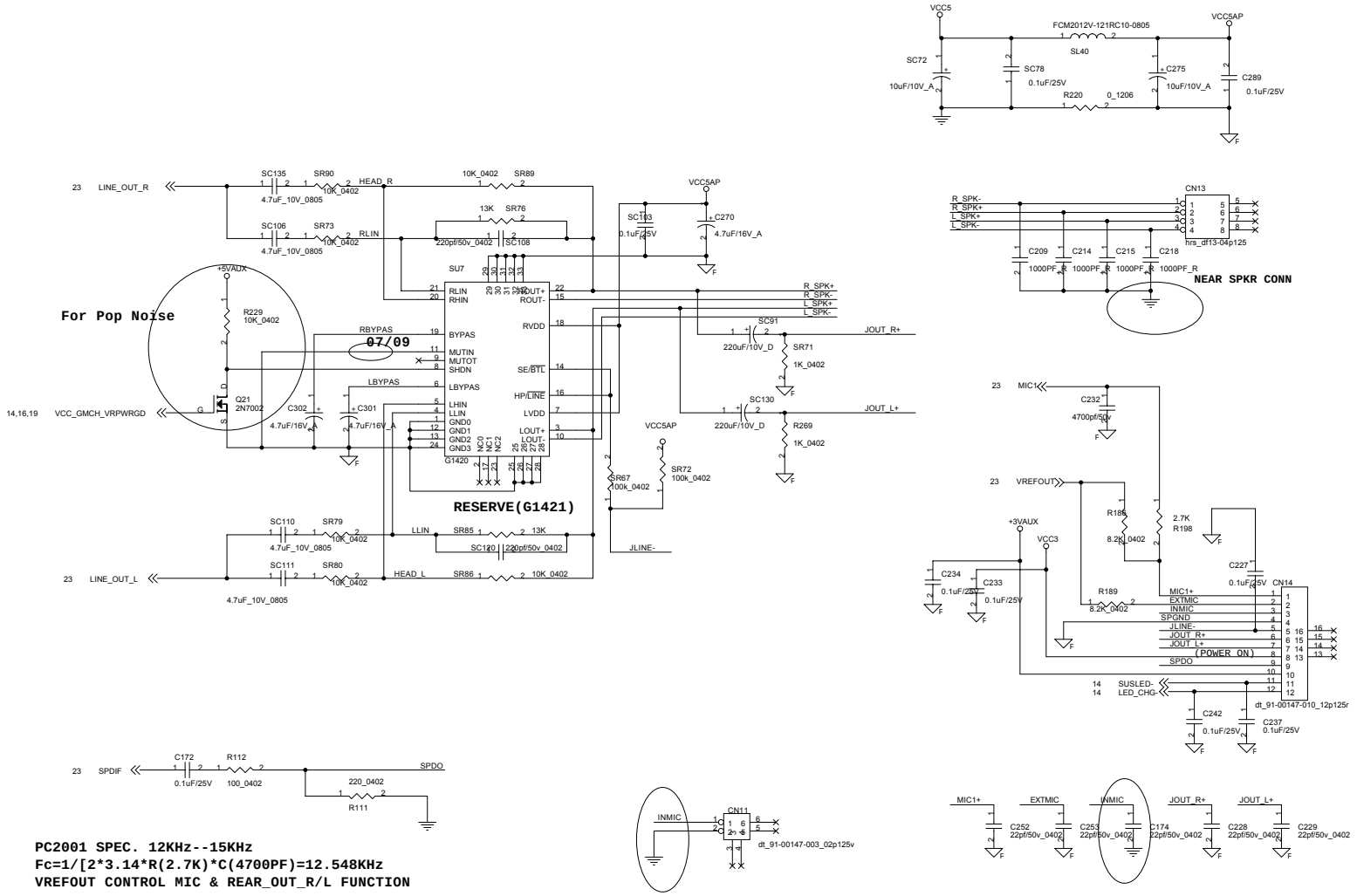
Elitegroup Computer Systems

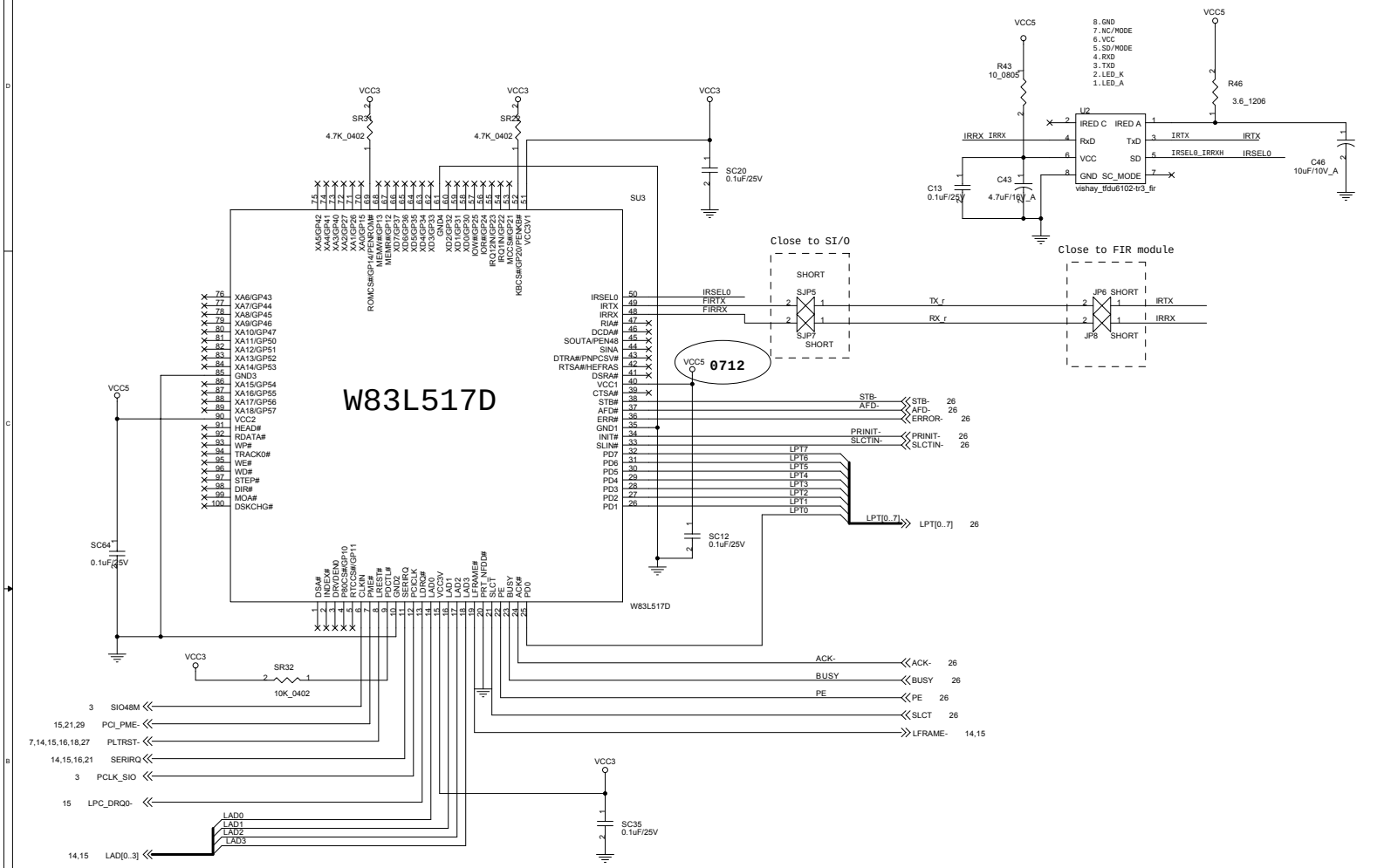
Title: CB 1394 CONN.& PWR SW

Size	Document Number	Rev
B	558-1-4-01	B.0

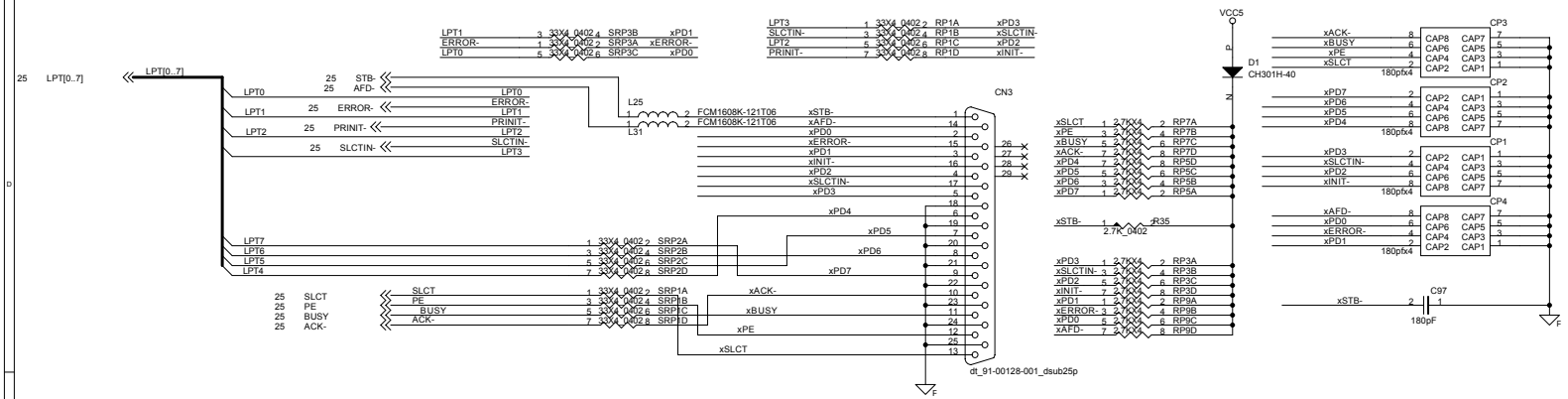
Date: Thursday, October 14, 2004 Sheet 22 of 37


Reserve for fine tune accuracy of Jack Sensing
ALC 655
LQFP-48
CHOOSE 24.576MHZ CRYSTAL;FLOATING
10/06
CD-AUDIO INTERFACE
ALC655
Elitegroup Computer Systems
Audio Codec (CMI9761A)
558-1-4-01
Thursday, October 14, 2004
Sheet 23 of 37

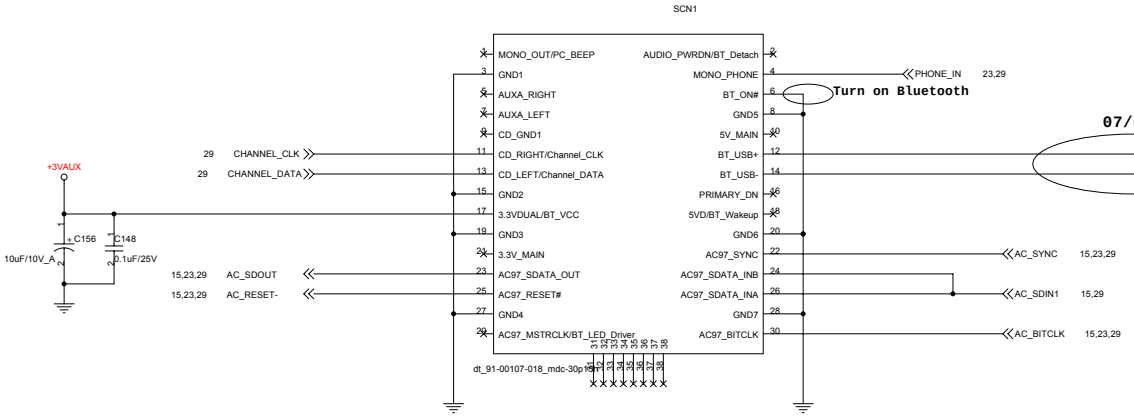

For Pop Noise
07/09
RESERVE(G1421)
NEAR SPKR CONN
PC2001 SPEC. 12KHz--15KHz
Fc=1/[2*3.14*R(2.7K)*C(4700PF)=12.548KHz
VREFOUT CONTROL MIC & REAR_OUT_R/L FUNCTION
(POWER_ON)
Elitegroup Computer Systems
OPA & AUDIO JACK
Document Number 558-1-4-01
Rev B.0
Thursday, October 14, 2004
Sheet 24 of 37

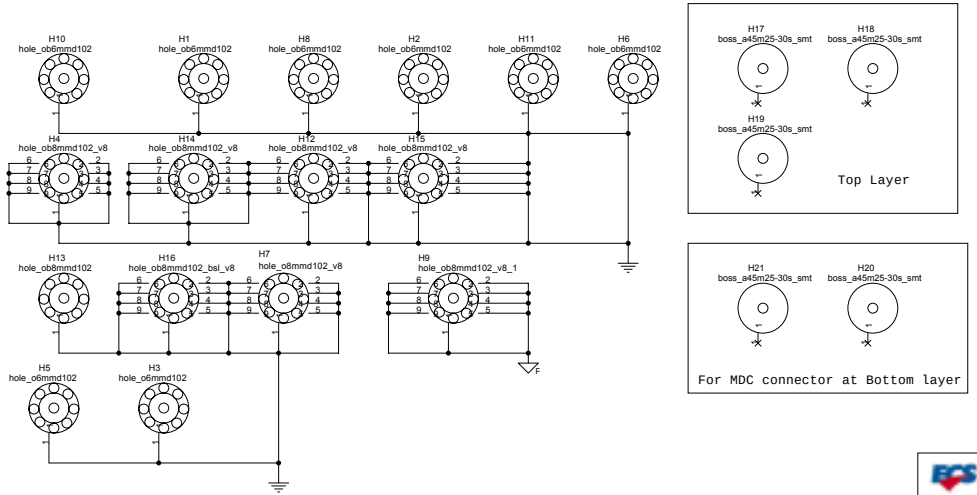


Elitegroup Computer Systems			
Title: W83L517D			
Size: B	Document Number: 558-1-4-01		Rev: B.0
Date: Thursday, October 14, 2004	Sheet 25 of 37		



9/22





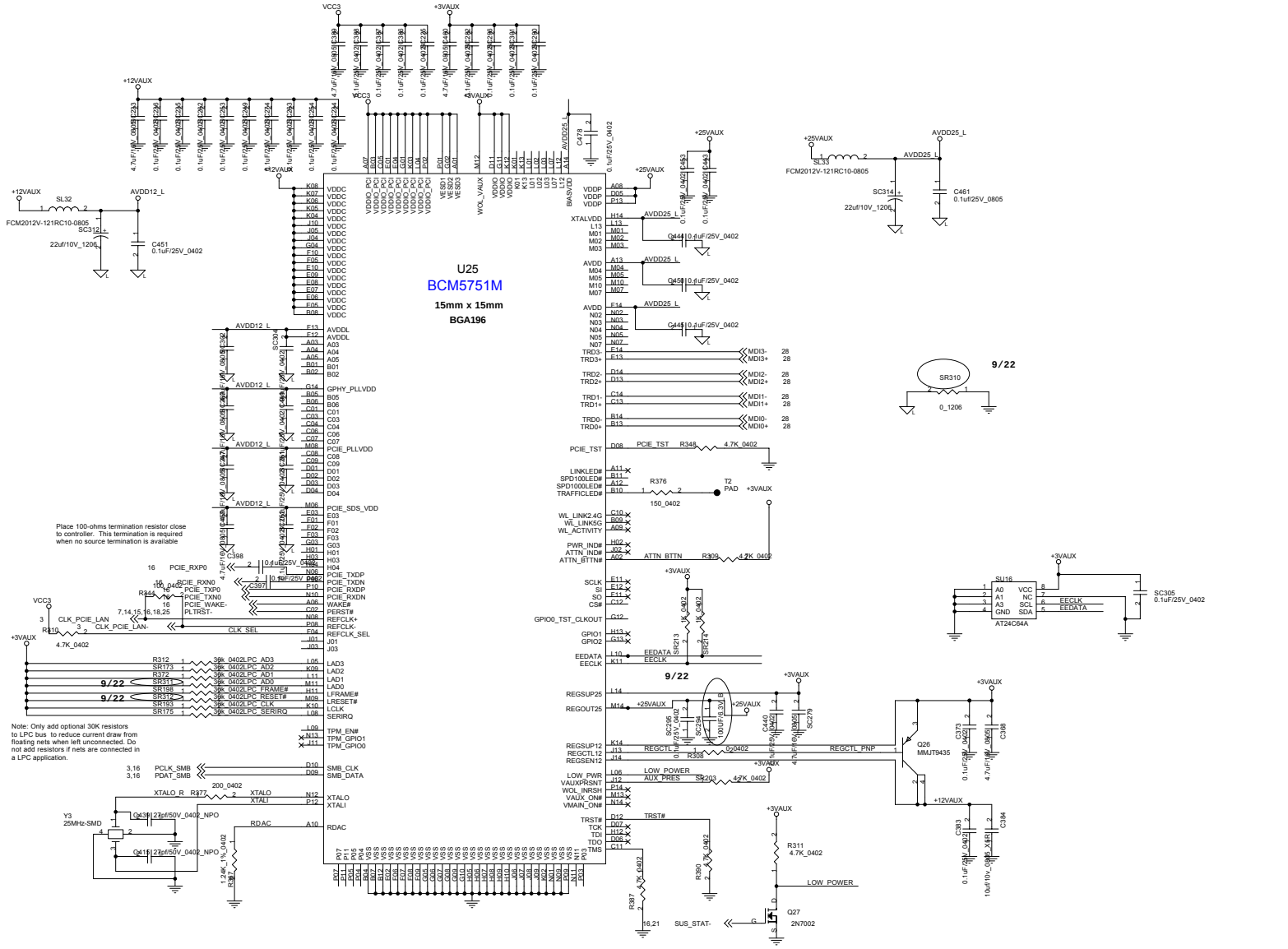
Elitegroup Computer Systems

Title: **LPT PORT & MDC CONN**

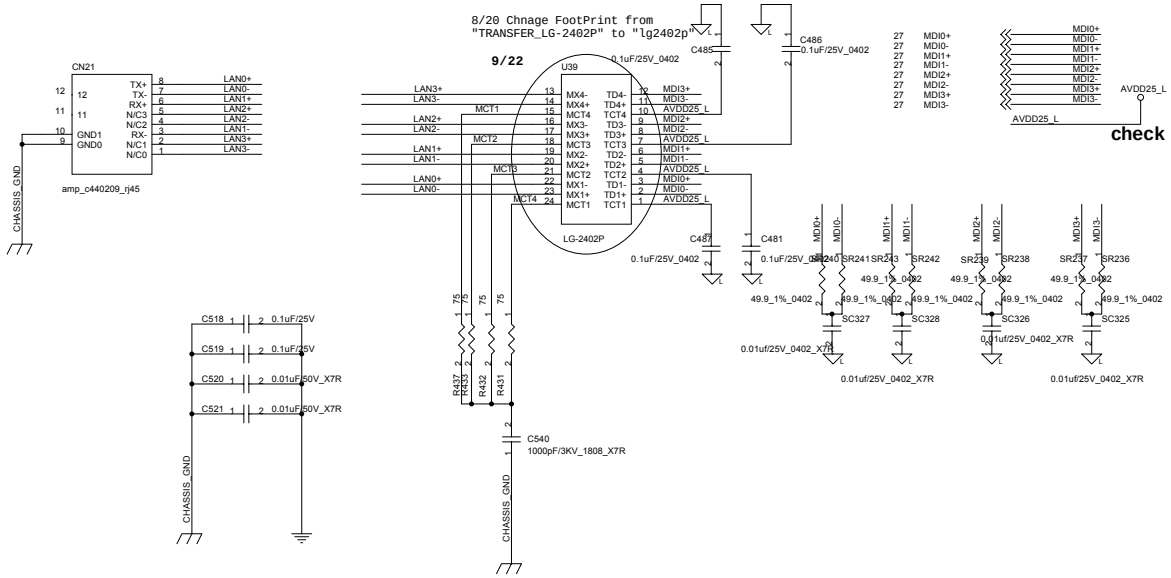
Size	Document Number	Rev
B	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 26 of 37

Note: Verify that noise levels in the Design Guidelines are not exceeded.



Elitegroup Computer Systems			
Title: LAN_BCM5751M			
Size: C	Document Number: 558-1-4-01		Rev: B.0
Date: Thursday, October 14, 2004	Sheet 27 of 37		

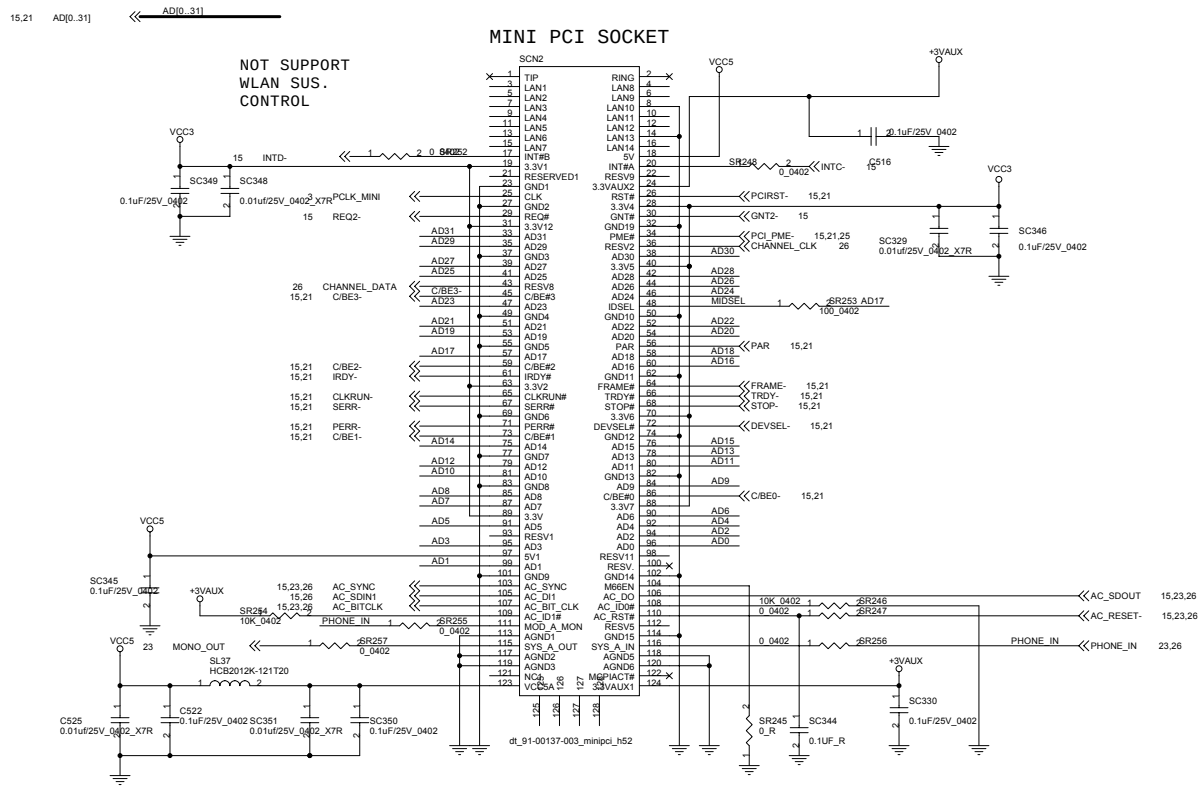


Elitegroup Computer Systems

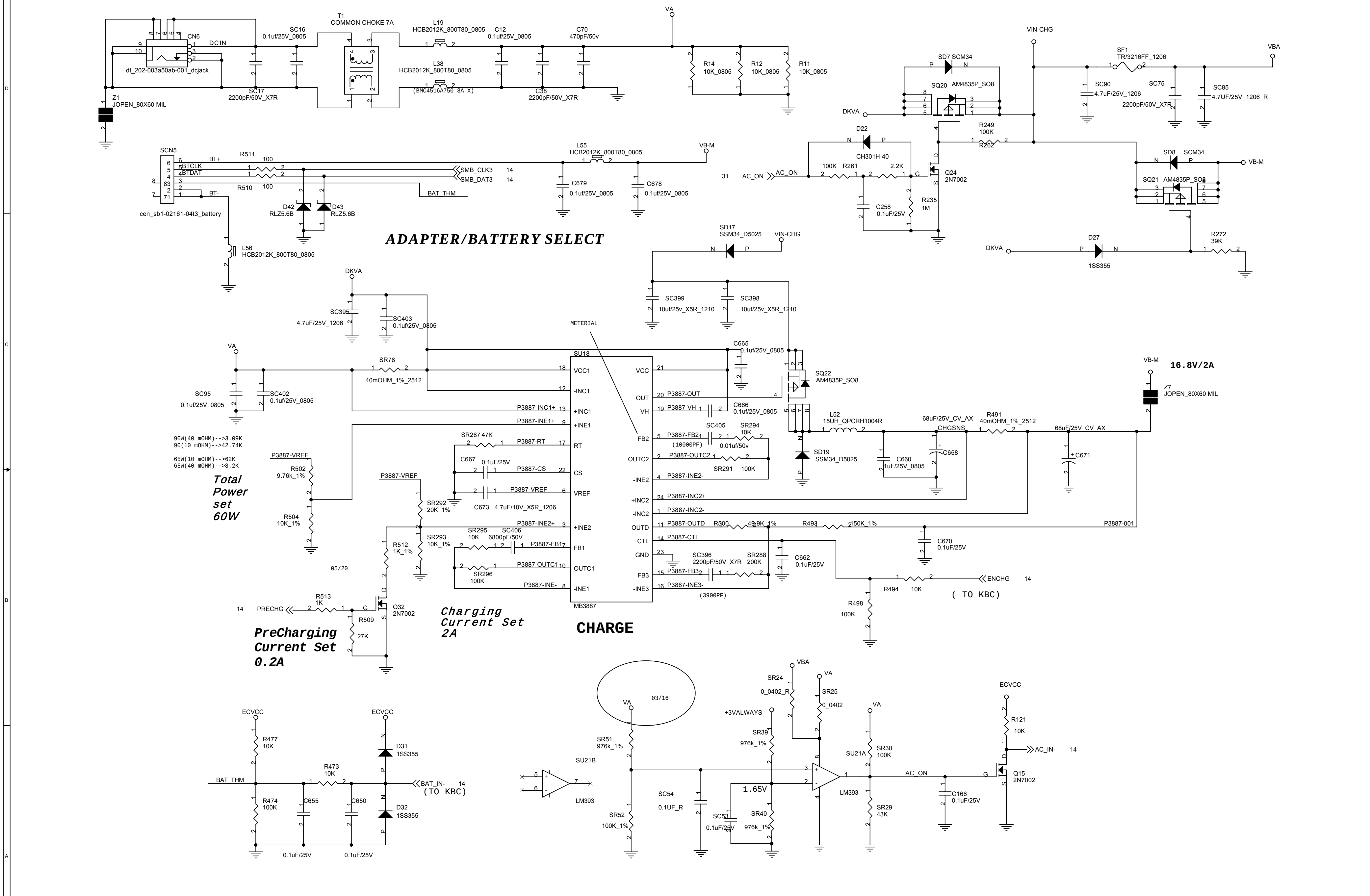
Title: **RJ-45**

Size	Document Number	Rev
B	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 28 of 37



Elitegroup Computer Systems			
Title: MINIPCI			
Size: B	Document Number: 558-1-4-01		Rev: B.0
Date: Thursday, October 14, 2004	Sheet 29 of 37		

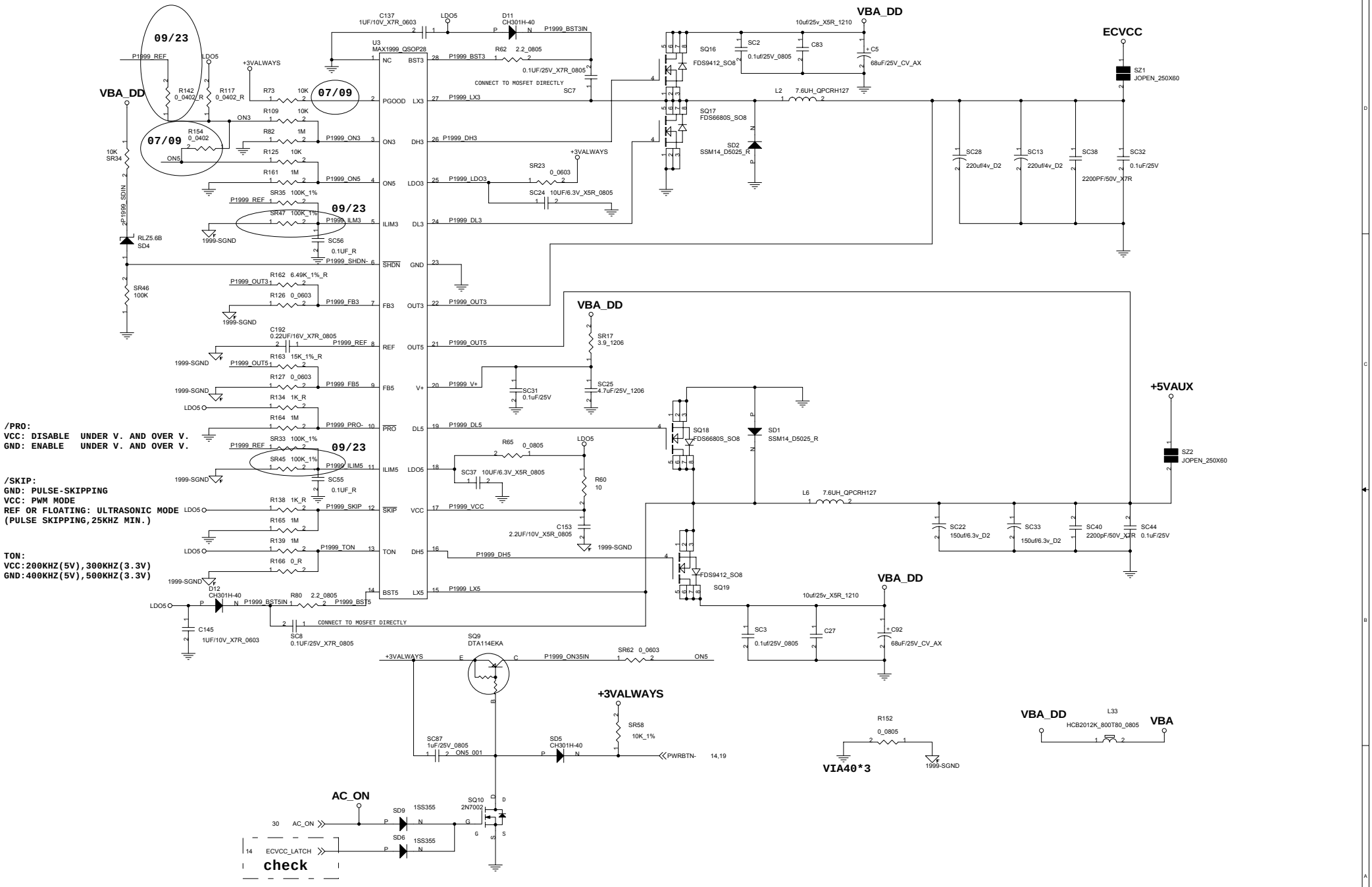


Elitegroup Computer Systems

Title: CHARGER & SELECT_MB3887

Size: C | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 30 of 37

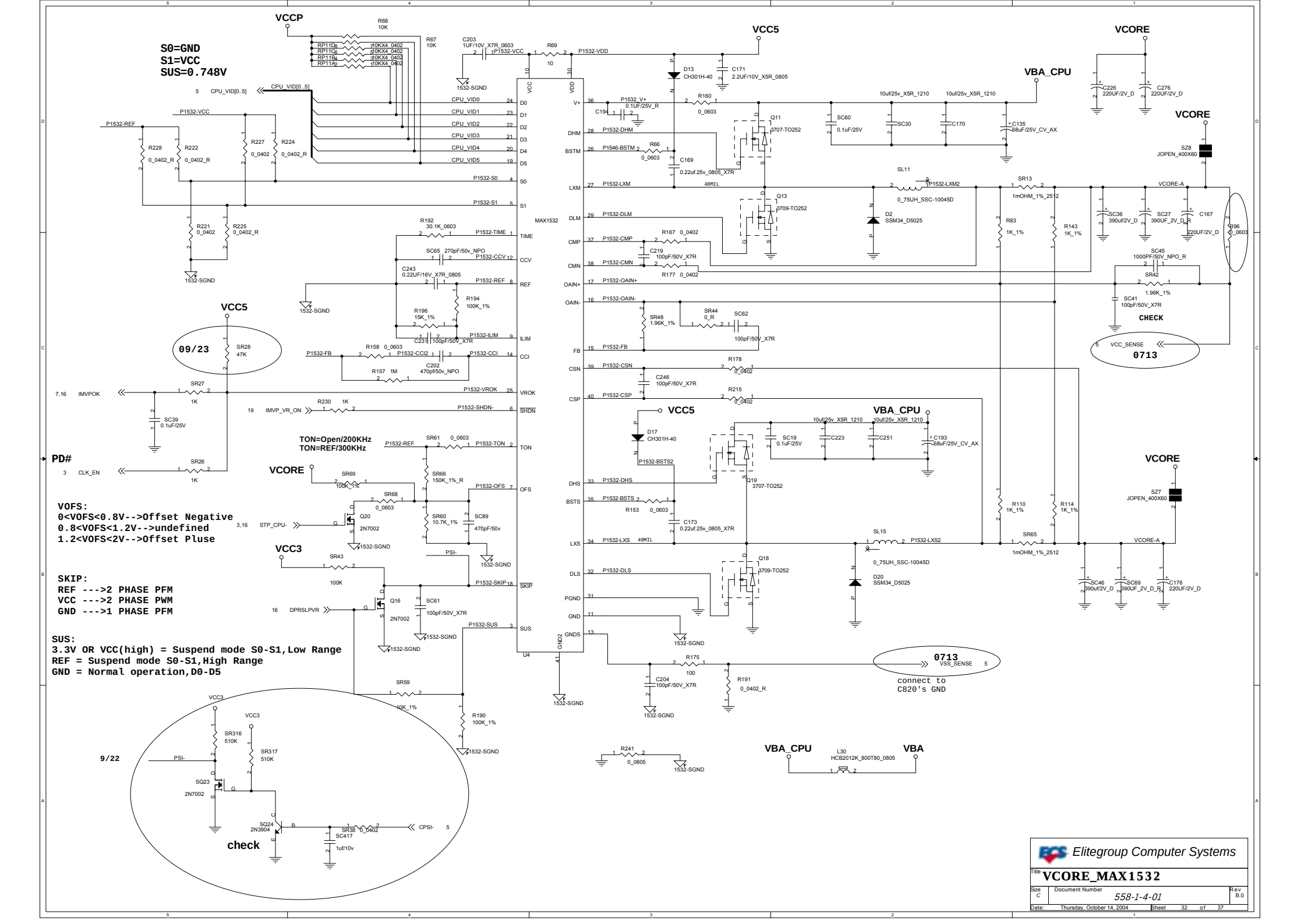


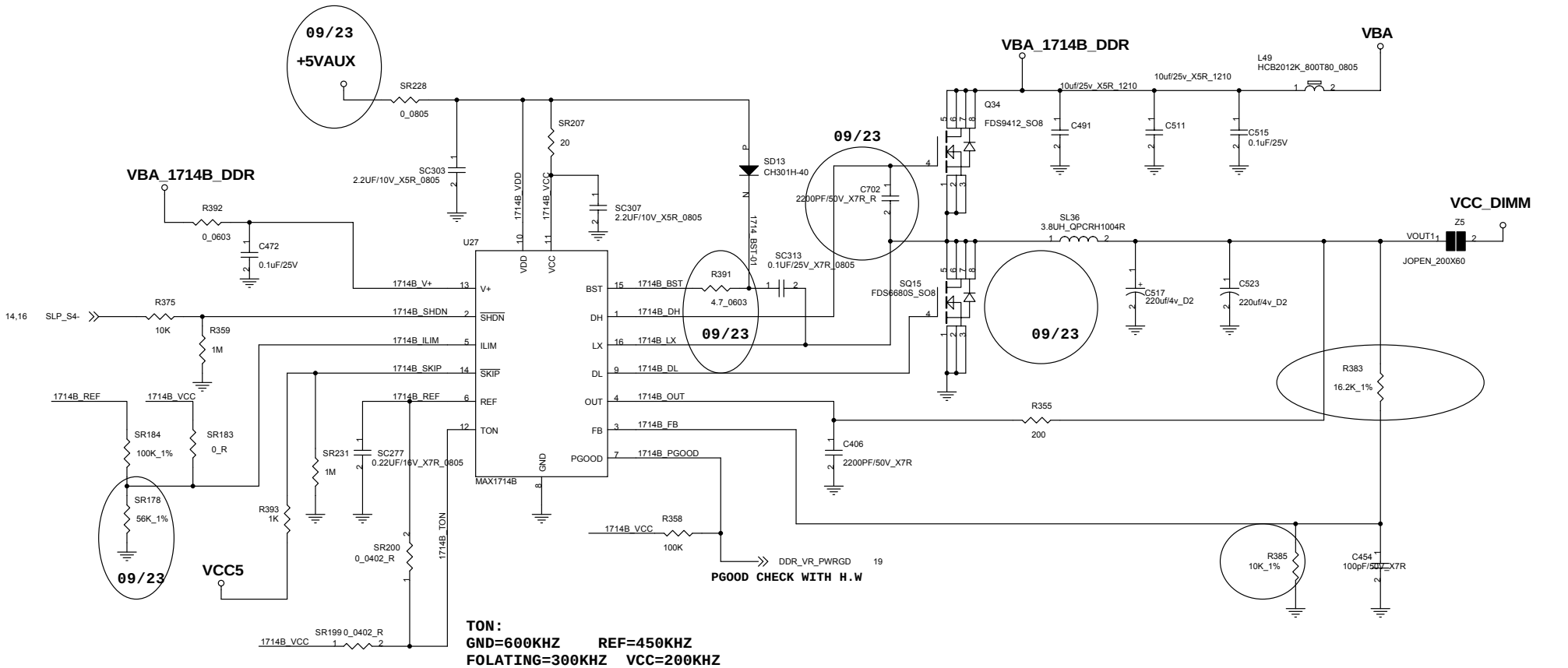
Elitegroup Computer Systems

Title: SYSTEMPOWER_MAX1999

Size	Document Number	Rev
C	558-1-4-01	B.0

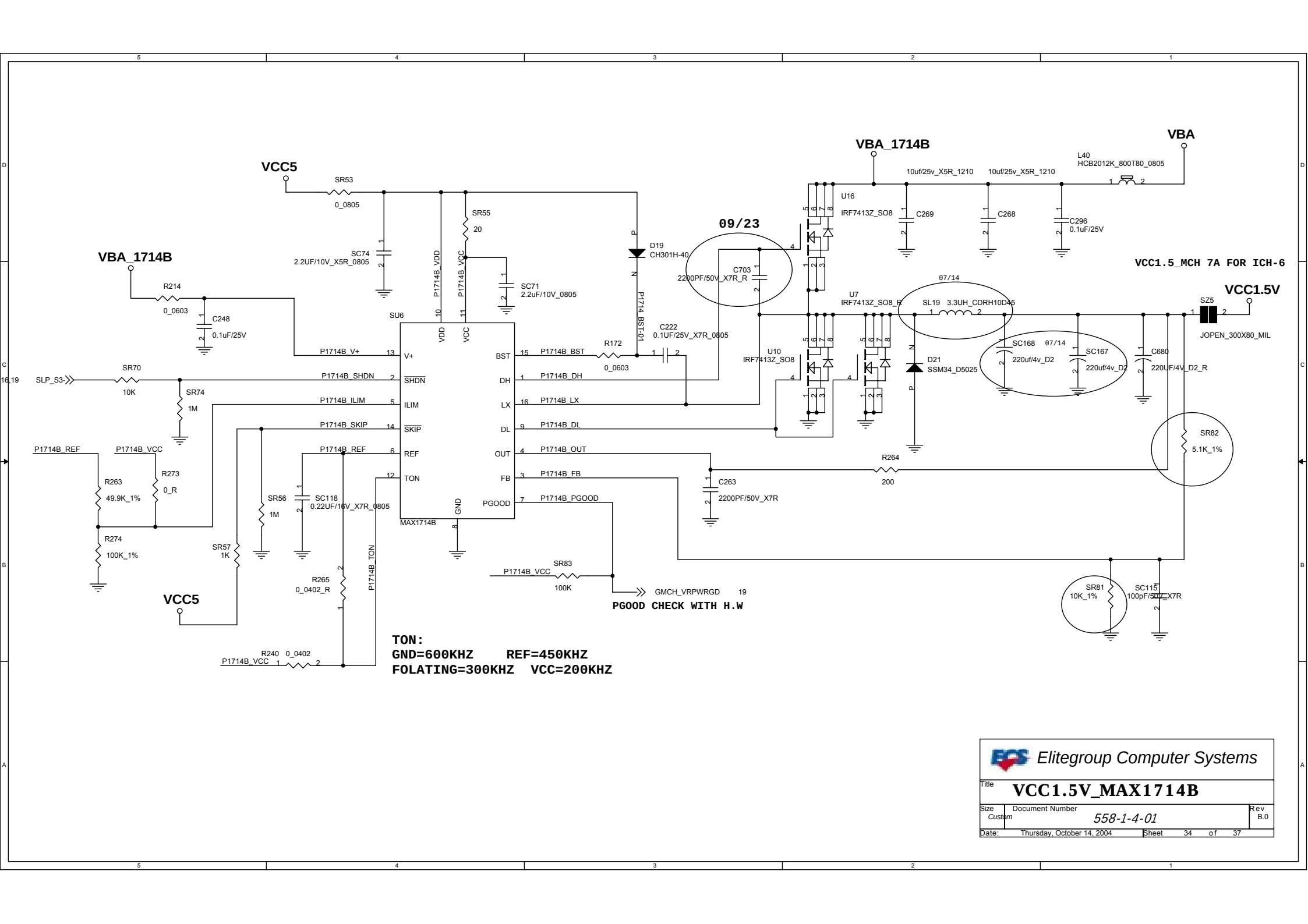
Date: Thursday, October 14, 2004 Sheet 31 of 37


S0=GND
S1=VCC
SUS=0.748V
VCCP
VCC5
VCORE
VBA_CPU
MAX1532
U4
09/23
TON=Open/200KHz
TON=REF/300KHz
VOFS:
0<VOFS<0.8V-->Offset Negative
0.8<VOFS<1.2V-->undefined
1.2<VOFS<2V-->Offset Pluse
SKIP:
REF --->2 PHASE PFM
VCC --->2 PHASE PWM
GND --->1 PHASE PFM
SUS:
3.3V OR VCC(high) = Suspend mode S0-S1,Low Range
REF = Suspend mode S0-S1,High Range
GND = Normal operation,D0-D5
PD#
9/22
check
0713
VCC_SENSE
VSS_SENSE
connect to
C820's GND
CHECK
Elitegroup Computer Systems
VCORE_MAX1532
Document Number
558-1-4-01
Rev
B.0
Thursday, October 14, 2004
Sheet 32 of 37

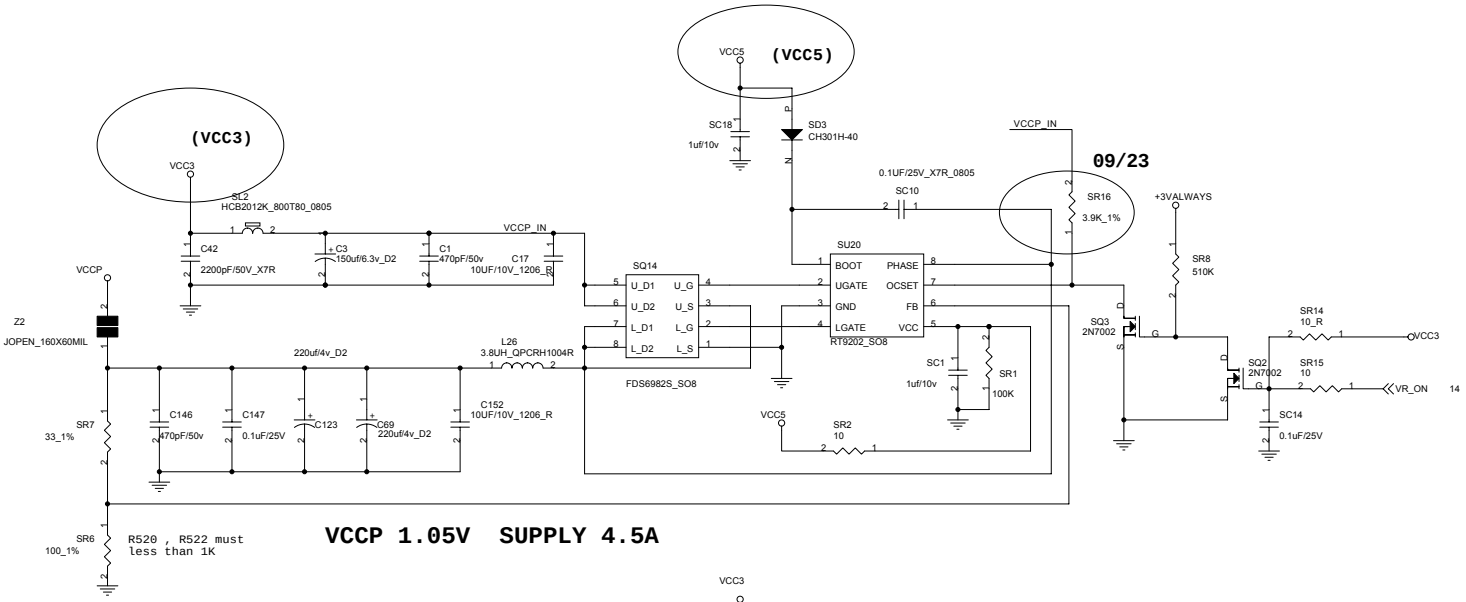


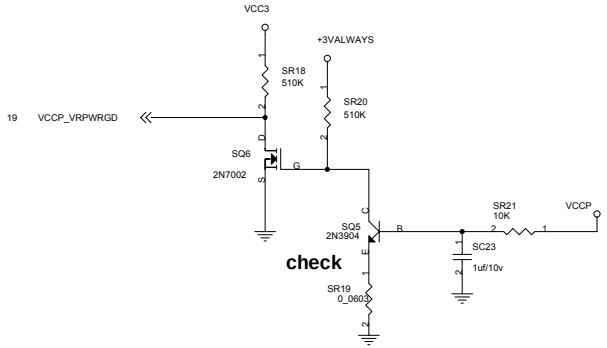
Elitegroup Computer Systems

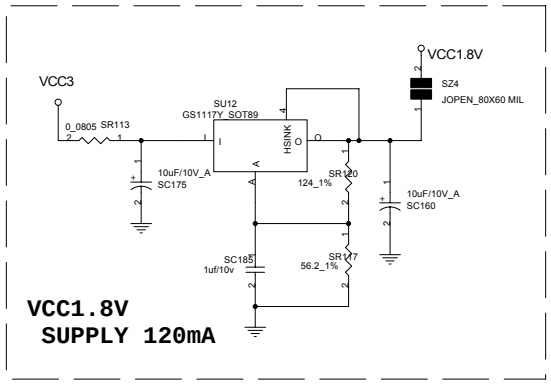
Title	DDR POWER_MAX1714B	
Size: Custom	Document Number: 558-1-4-01	Rev: B.0
Date: Thursday, October 14, 2004	Sheet 33 of 37	

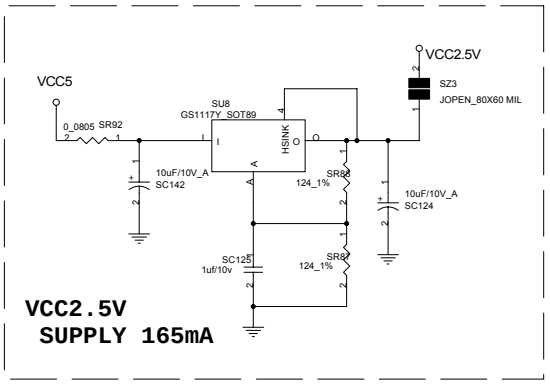


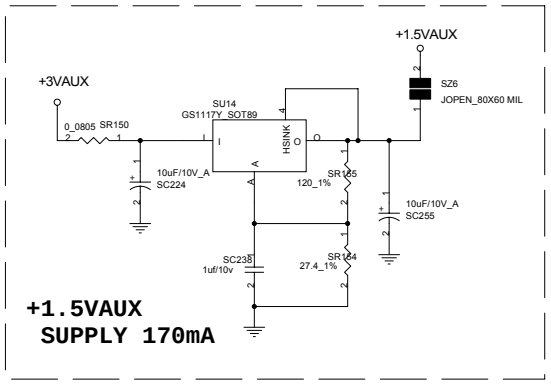
Elitegroup Computer Systems	
Title	VCC1.5V_MAX1714B
Size: Custom	Document Number: 558-1-4-01
Rev	B.0
Date: Thursday, October 14, 2004	Sheet 34 of 37









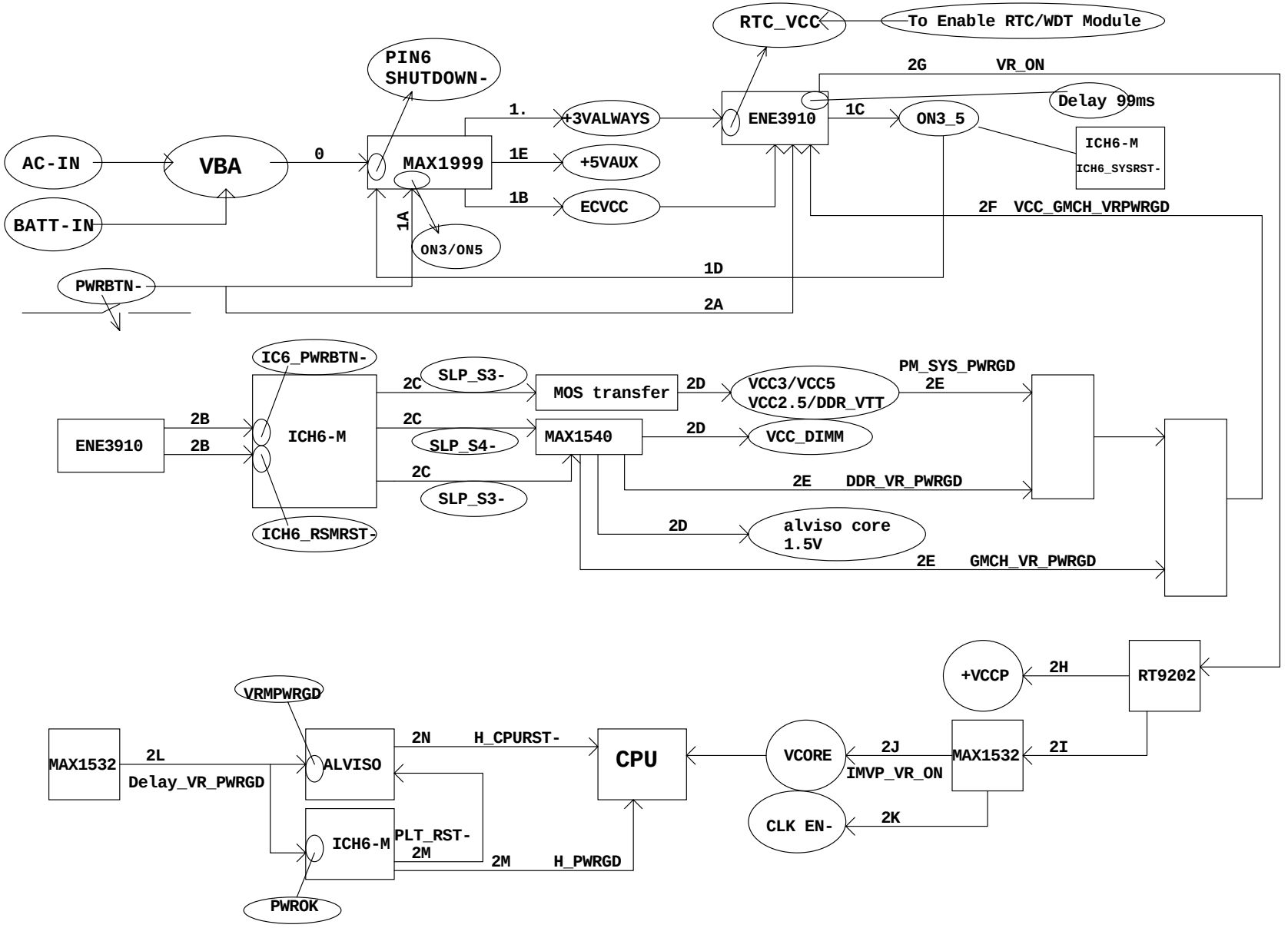


Elitegroup Computer Systems

Title: **VCCP & LDO**

Size	Document Number	Rev
C	558-1-4-01	B.0

Date: Thursday, October 14, 2004 Sheet 35 of 37



Elitegroup Computer Systems

Title: **Power on Sequence**

Size: B | Document Number: 558-1-4-01 | Rev: B.0

Date: Thursday, October 14, 2004 | Sheet 36 of 37

V.A: Initial Release 2004/08/09 15-F55-010010

V.B: Initial Release 2004/10/13 15-F55-010020