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FOXCONN CONFIDENTIAL

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AMANDA - SP REV B RC1

Fri Mar 06 09:54:50 2009

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
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8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
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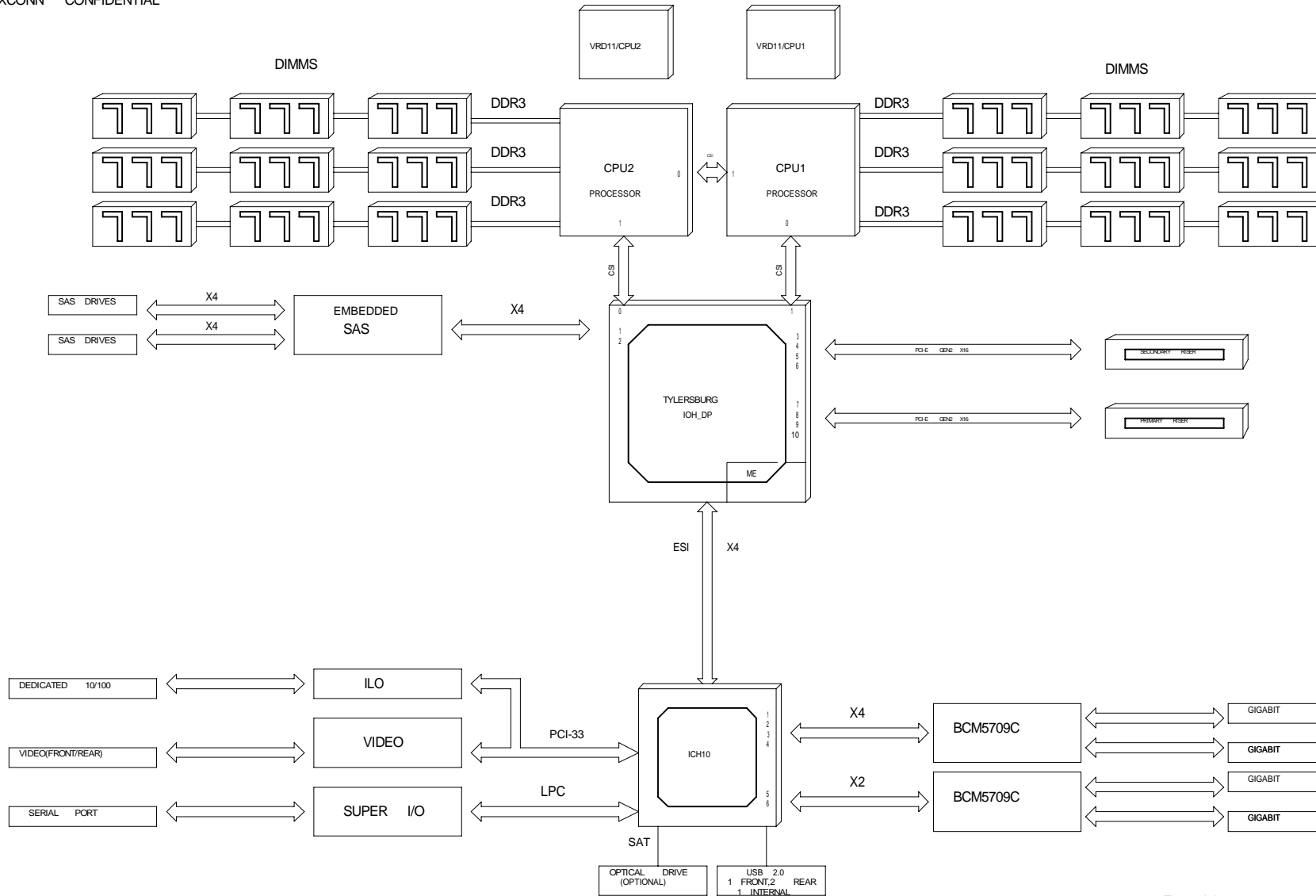
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SYSTEM BLOCK DIAGRAM

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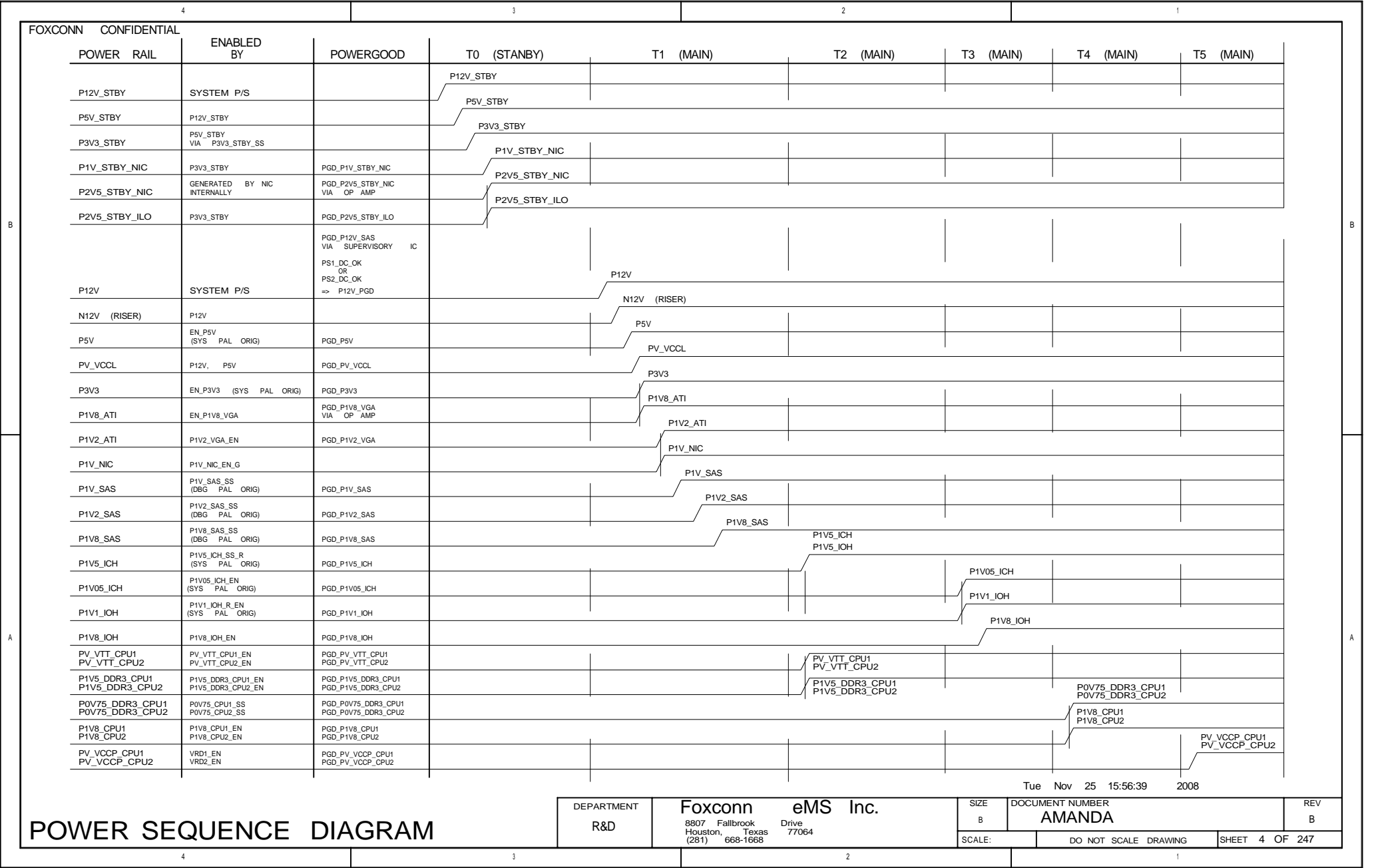
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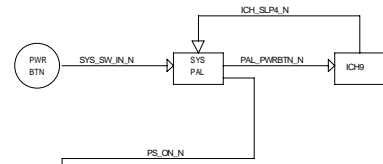
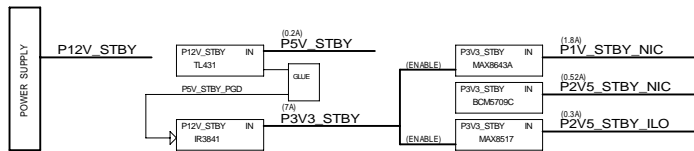
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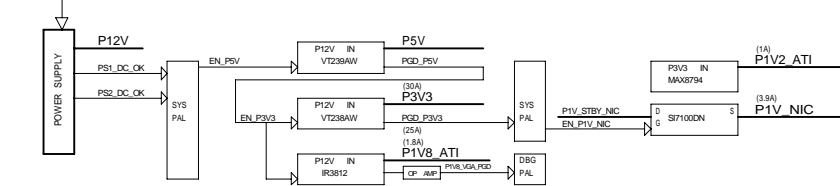
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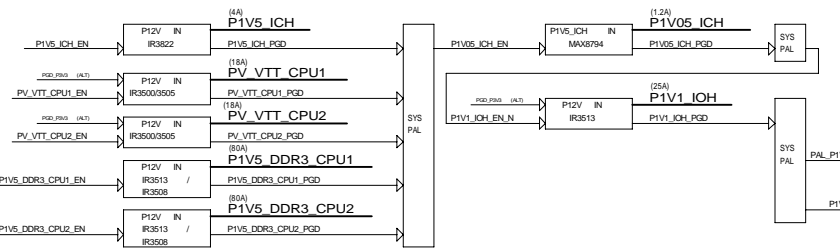


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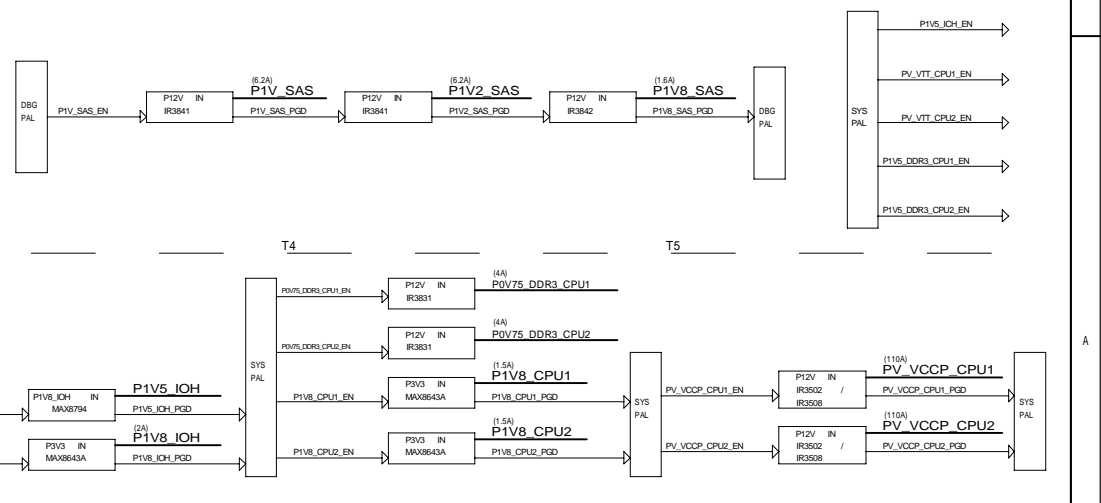
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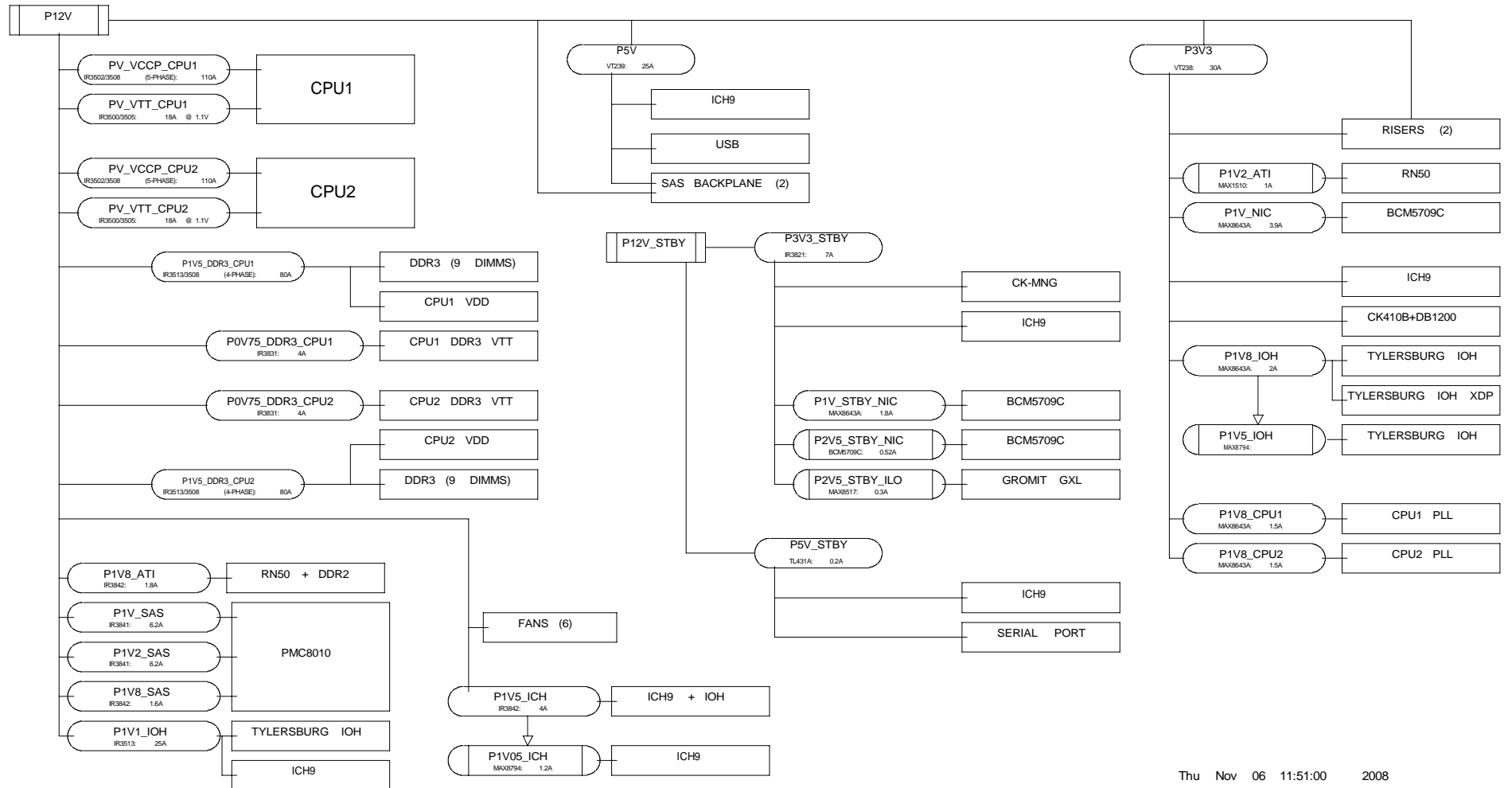
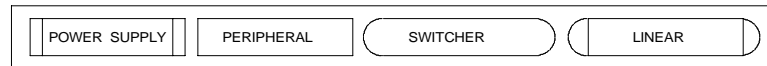


POWER GOOD DIAGRAM

Thu Nov 06 13:28:13 2008

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POWER DISTRIBUTION

DIAGRAM

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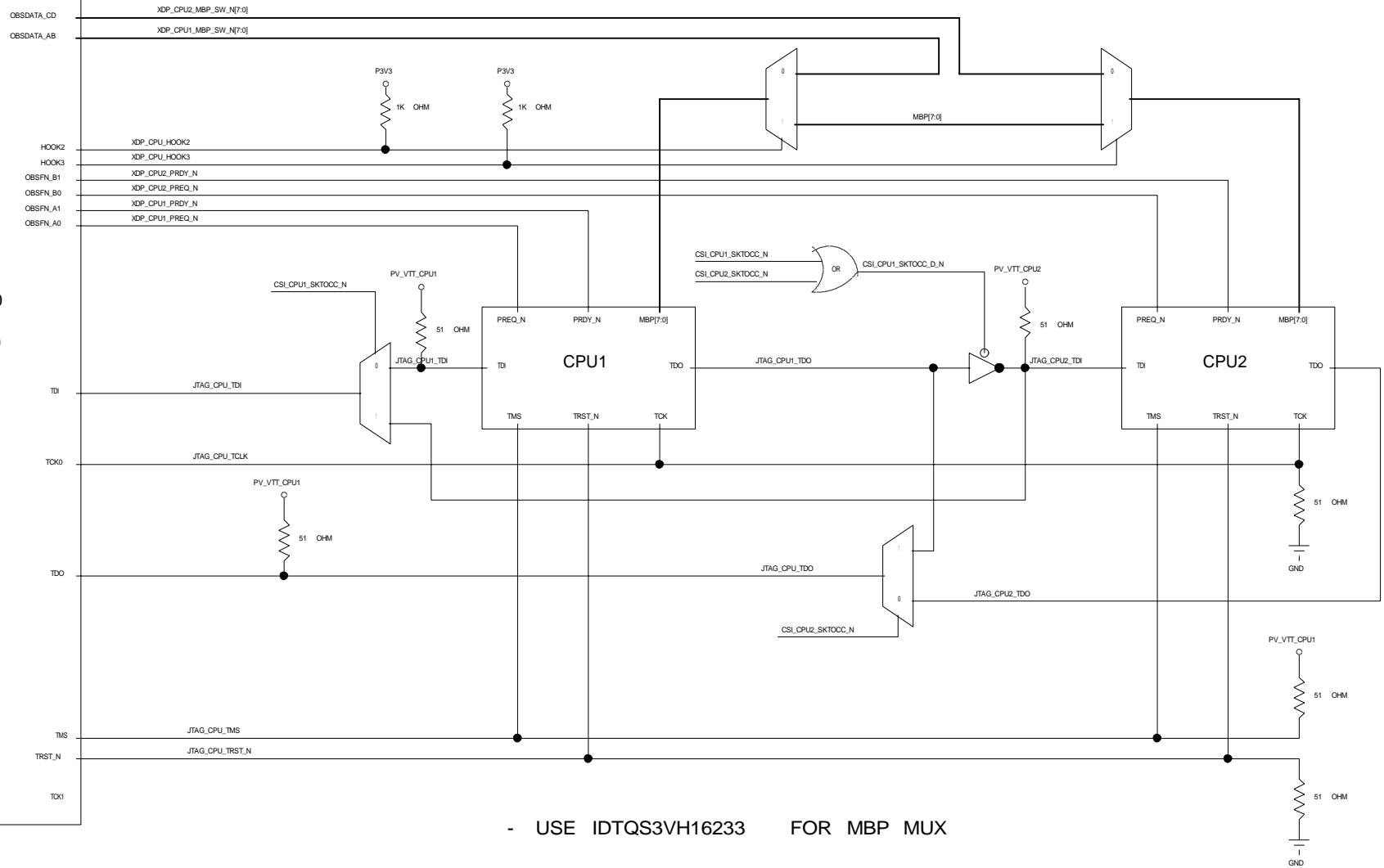
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XDP0
(CPU)

JTAG (CPU) BLOCK DIAGRAM

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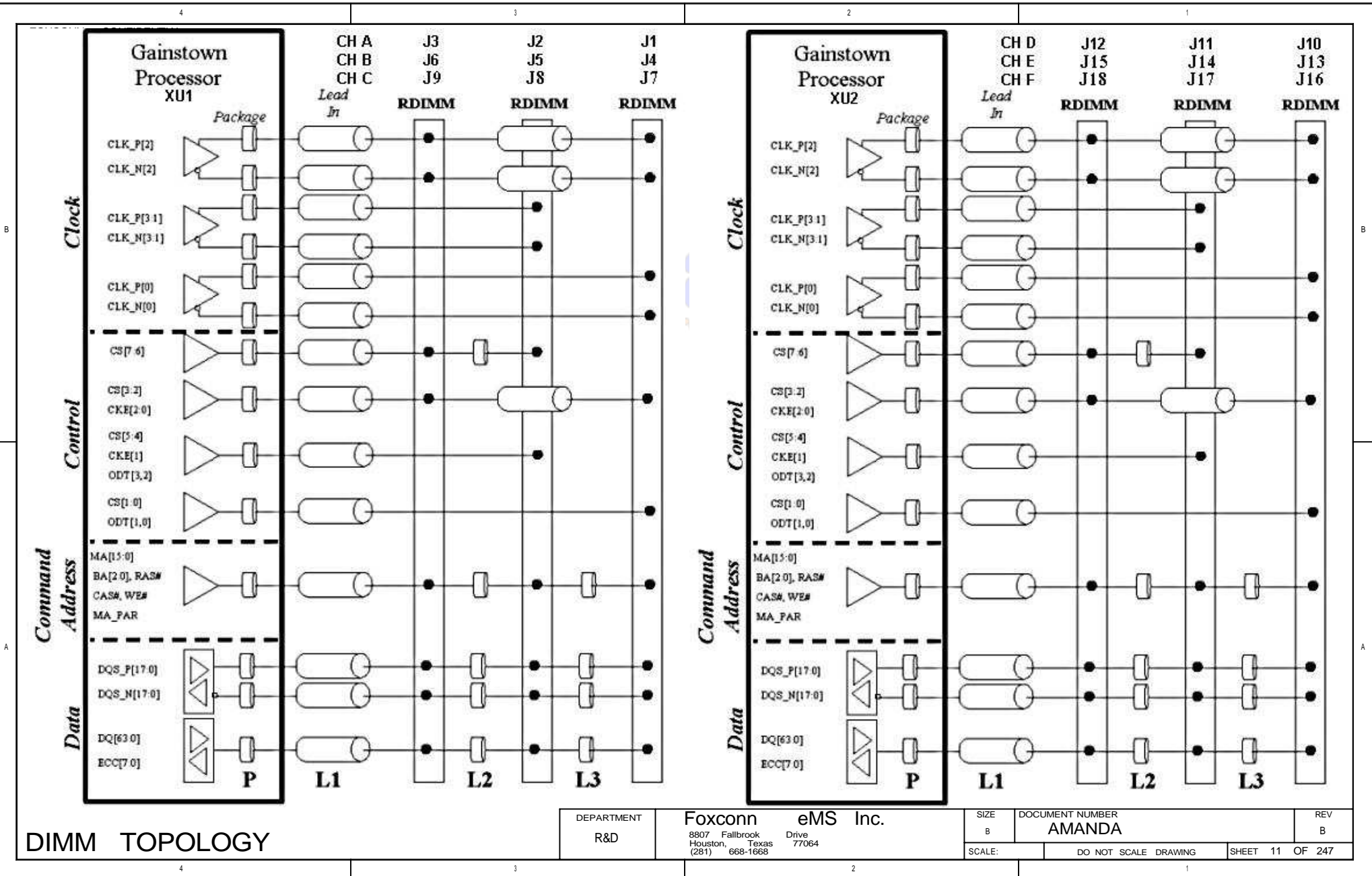
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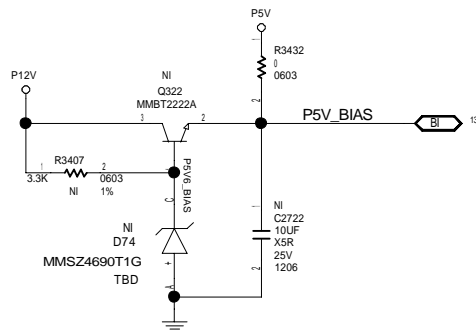
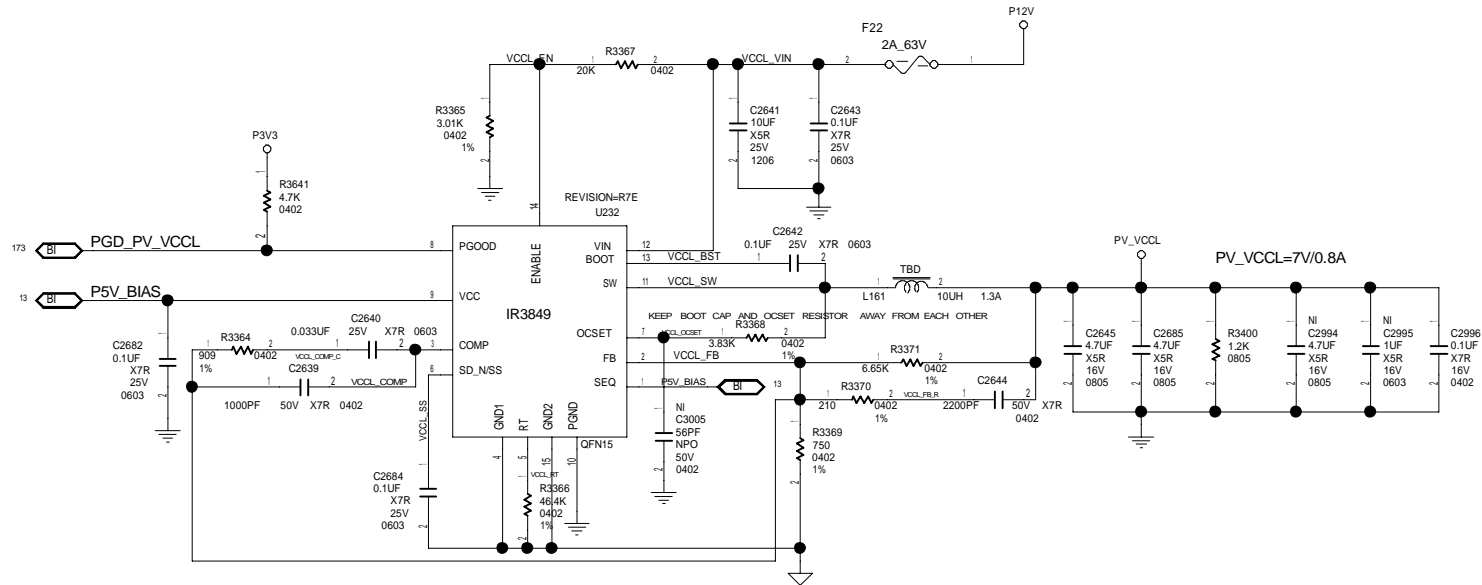
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Thu Nov 08 16:46:16 2007





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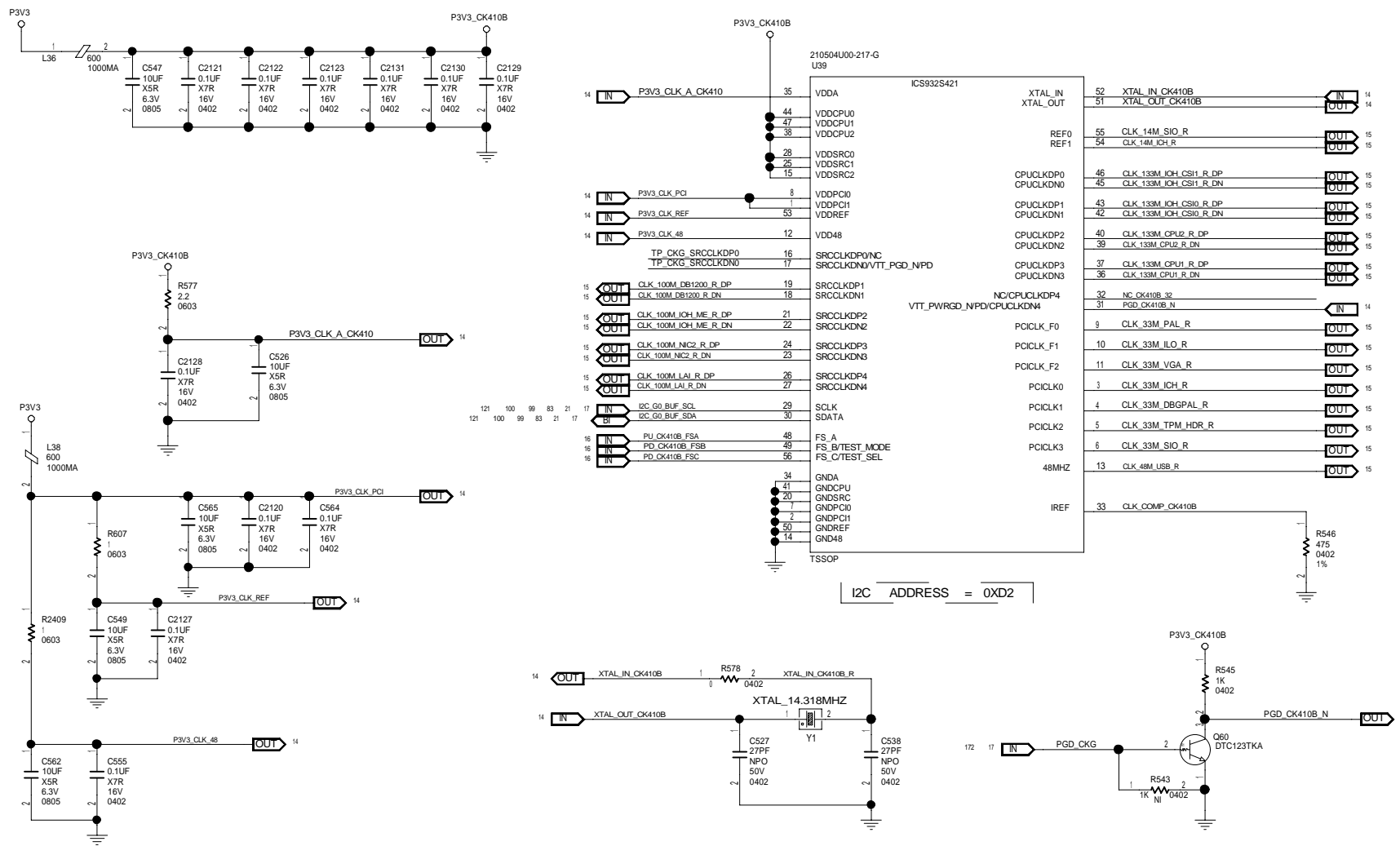
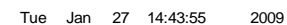


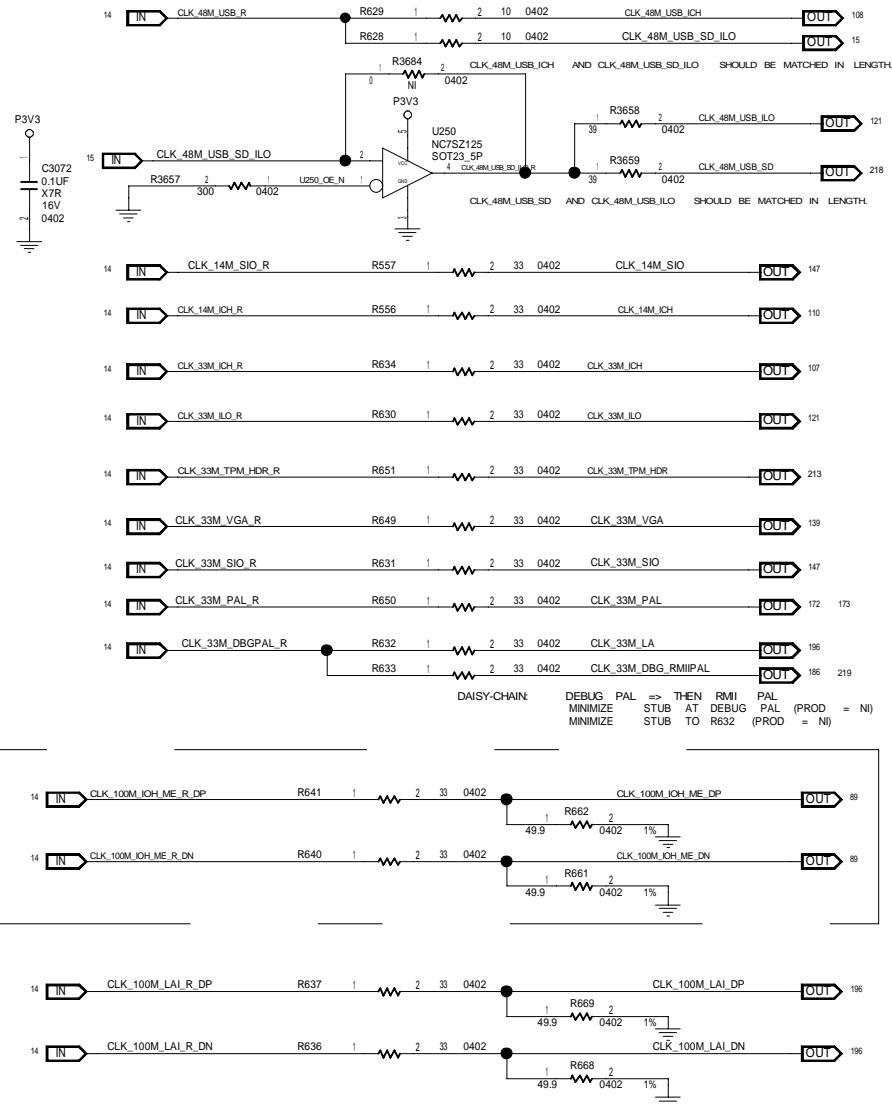
VCCL REGULATOR

Tue Jan 27 14:43:55 2009

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CK410+ CLOCK GENERATOR





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CK410+ TERMINATION

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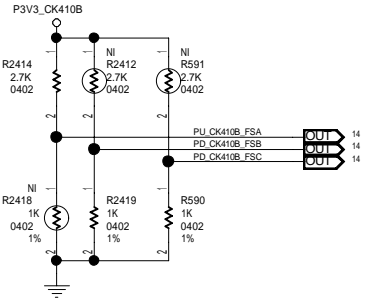
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FSC	FSB	FSA	FREEQUENCY
0	0	1	133MHZ
0	1	1	166MHZ
0	0	0	266MHZ
1	0	0	333MHZ
1	1	0	RESERVED

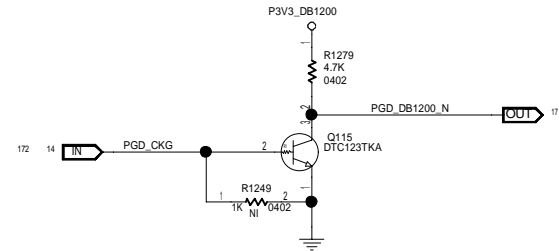
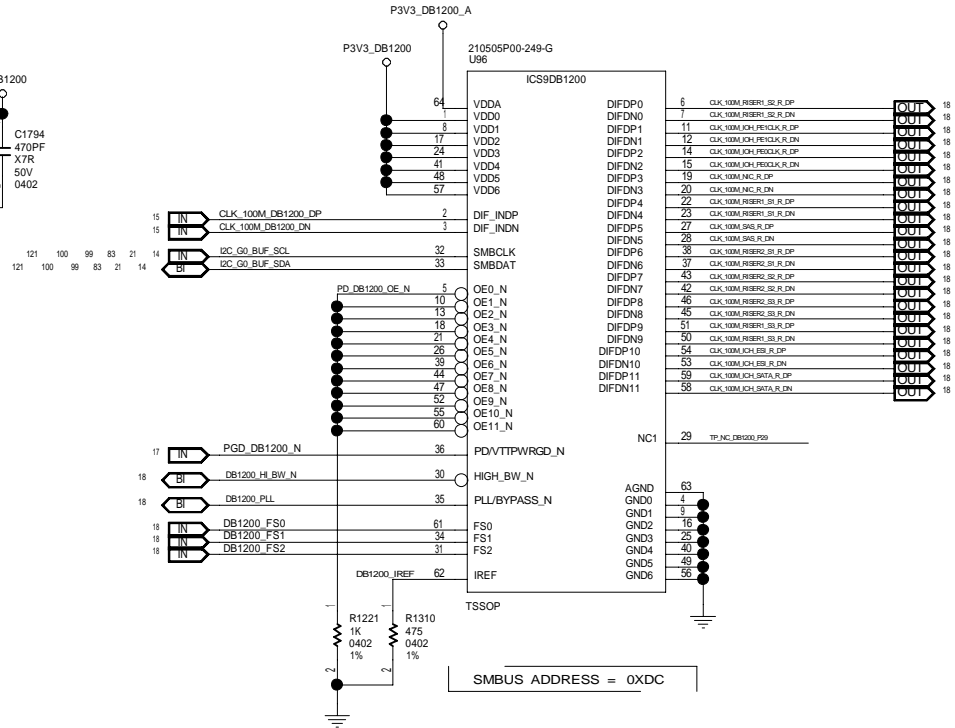
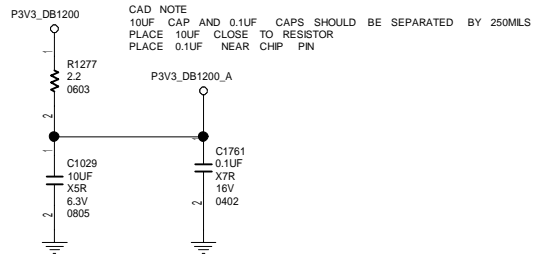
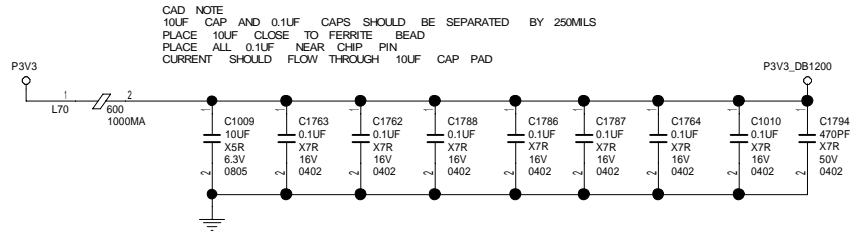
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CK410+ MISC STRAPPING

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DB1200 PCIE CLOCK BUFFER

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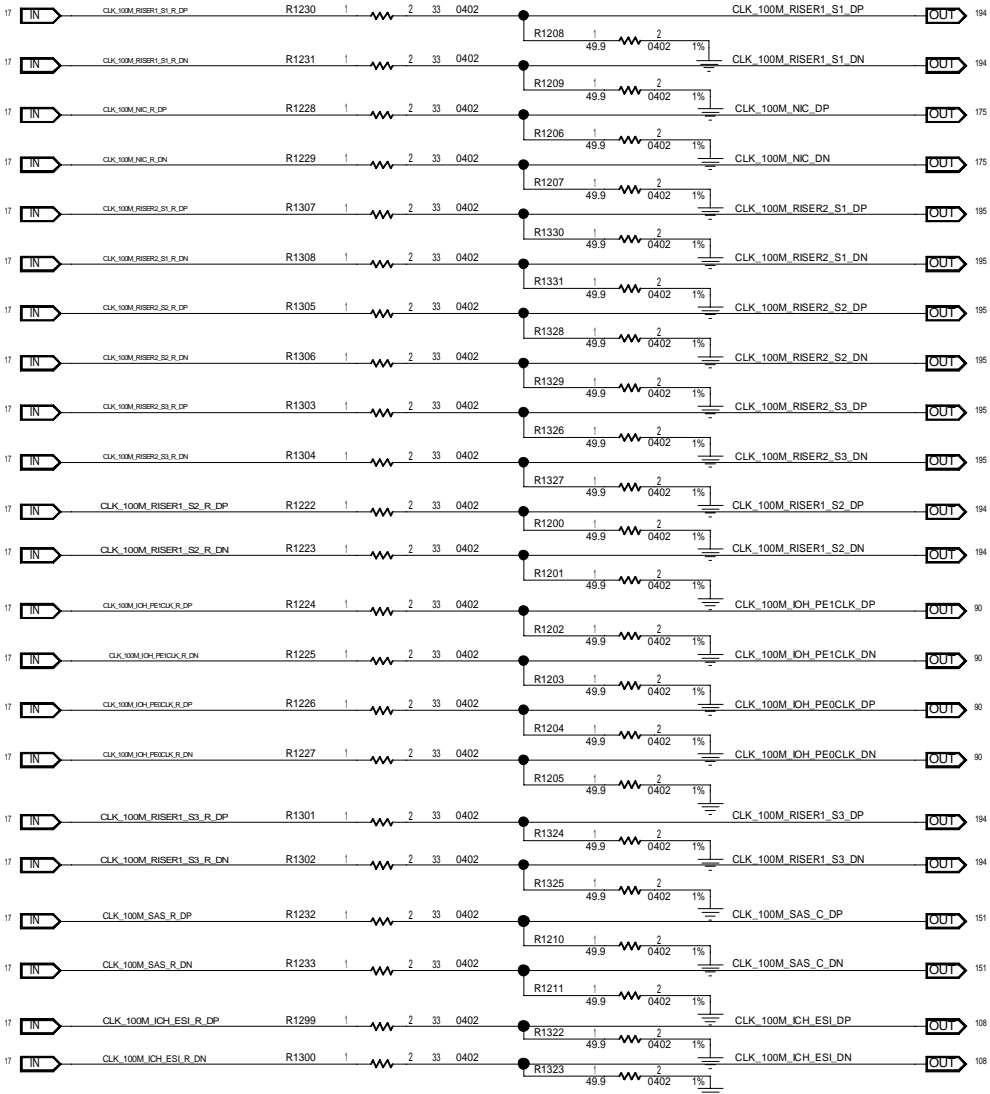
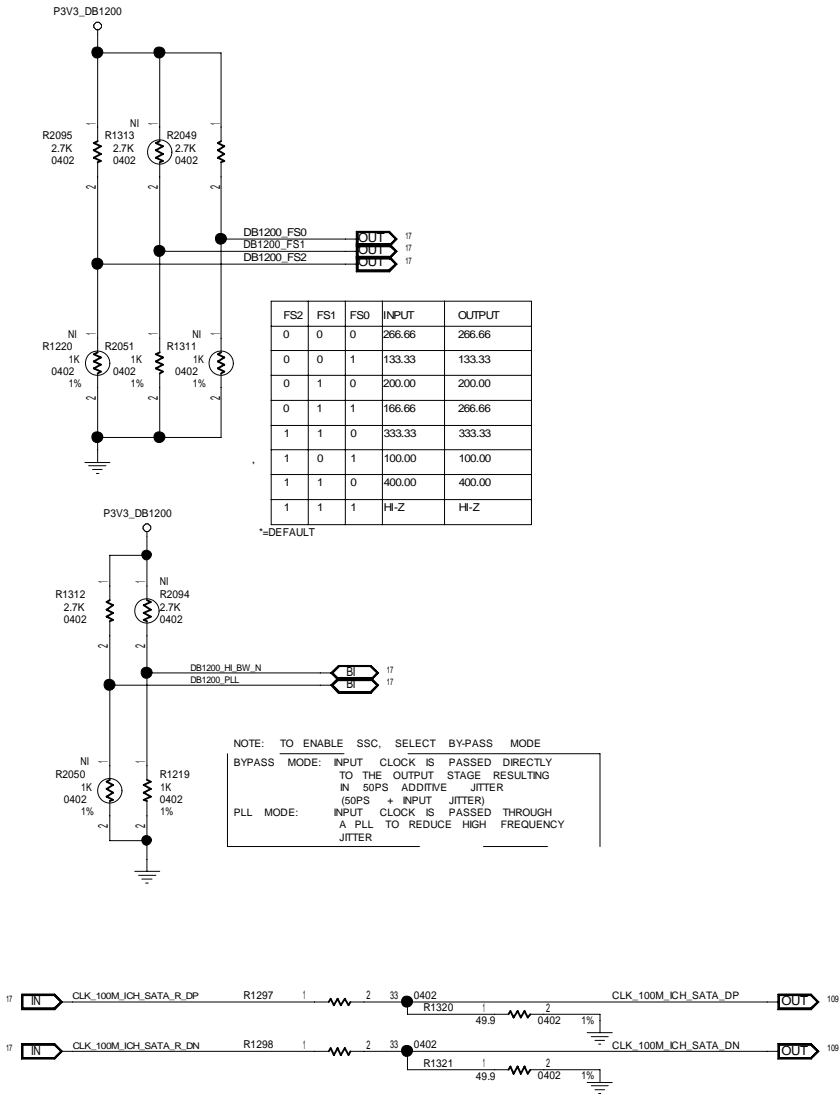
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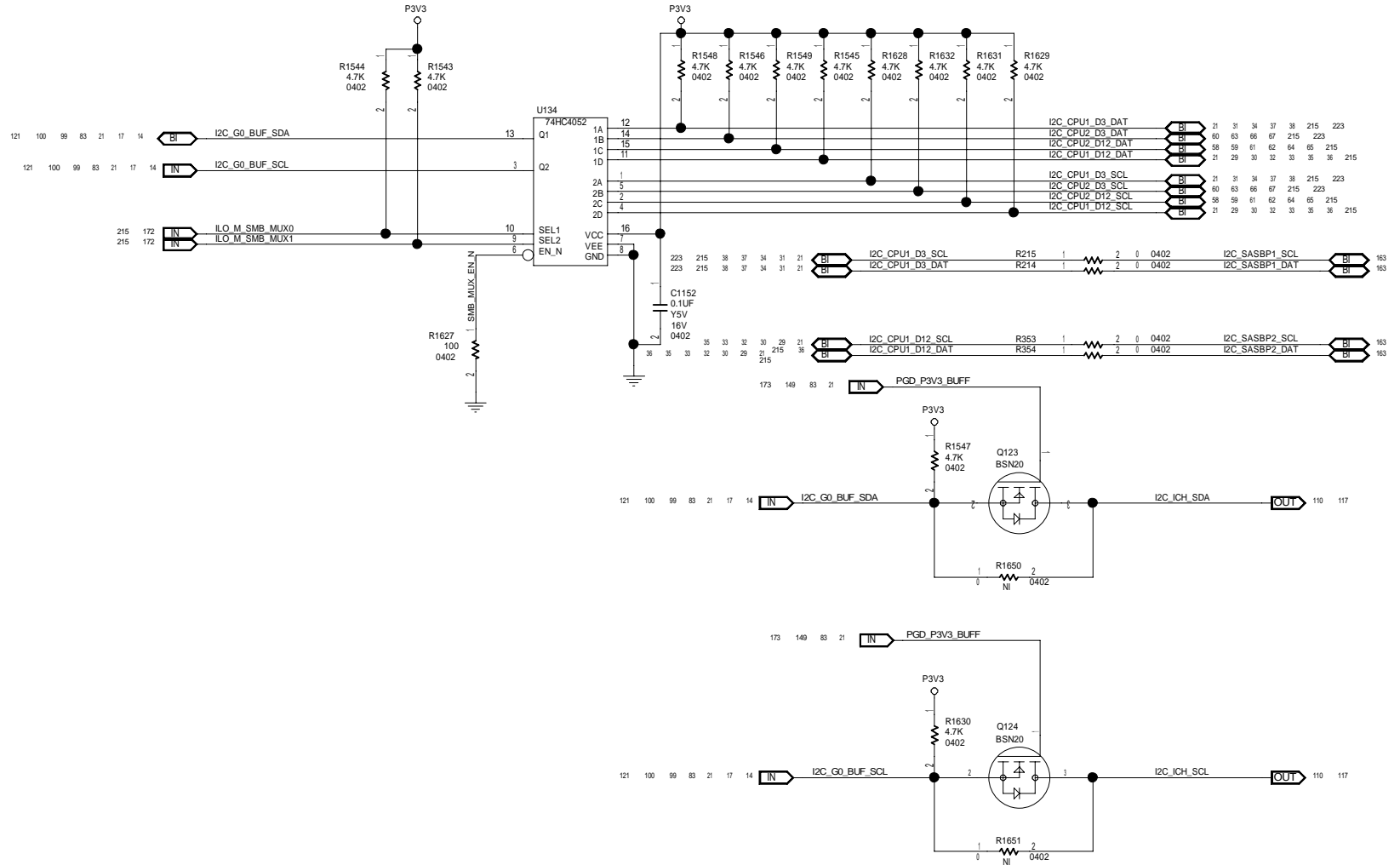
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SPD I2C MUX

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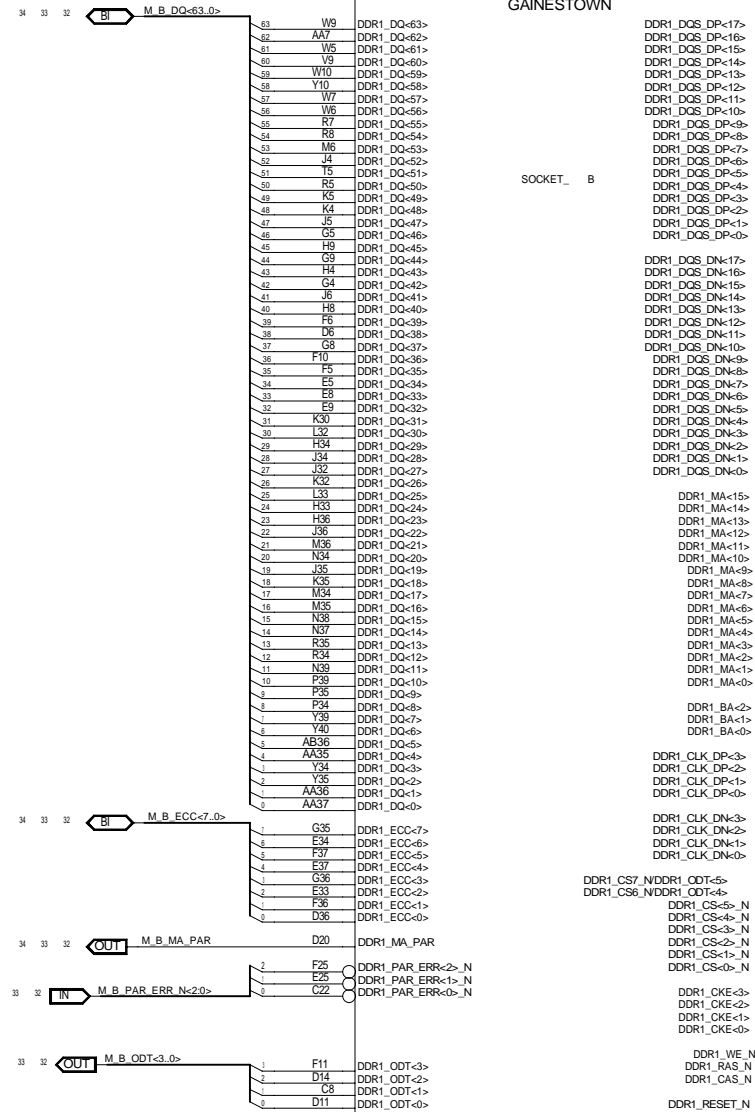


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XU1 TBD

GAINESTOWN

SOCKET_ B



XBGA1366

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CPU1

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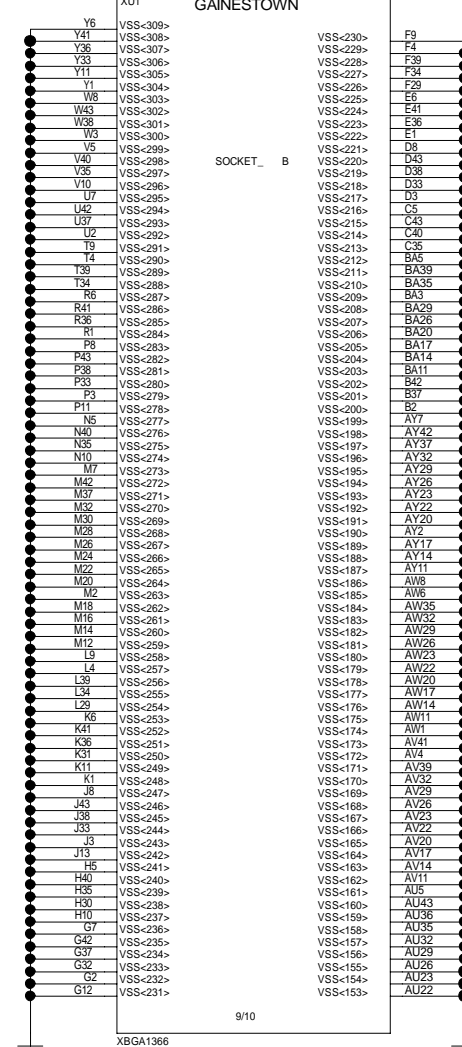
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XBGA1366

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GAINESTOWN

SOCKET_ B



XBGA1366



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T8D
XU1

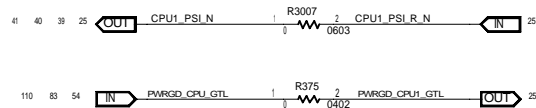
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XBGA1366

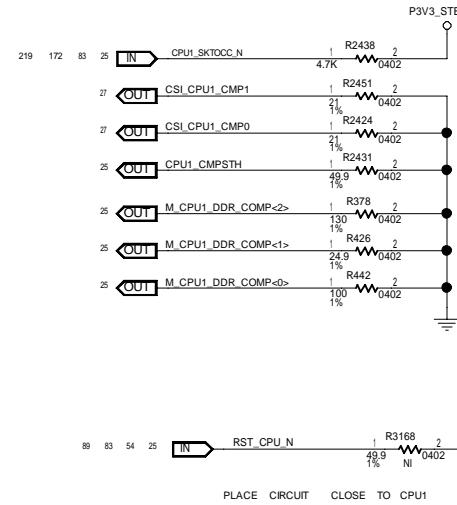
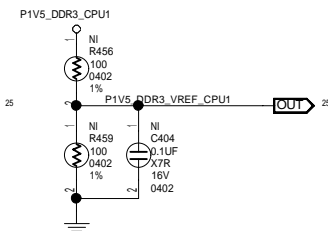
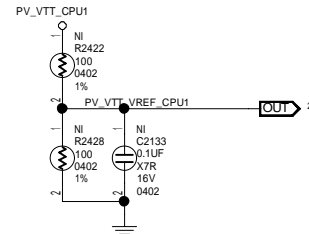
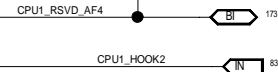
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POPULATE ZERO OHM WHEN USING B1 STEPPING OF NEHALEM

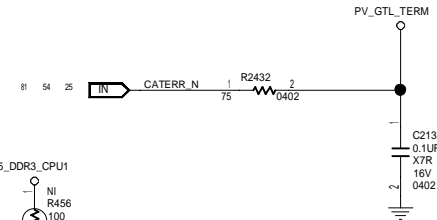
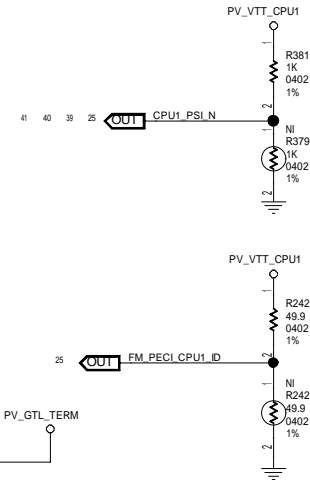


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PLACE CIRCUIT CLOSE TO CPU1



CPU1

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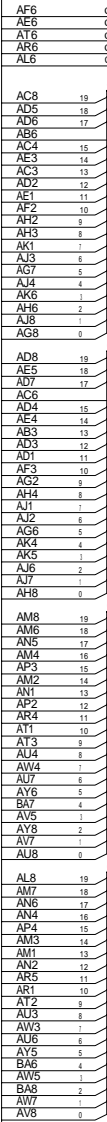
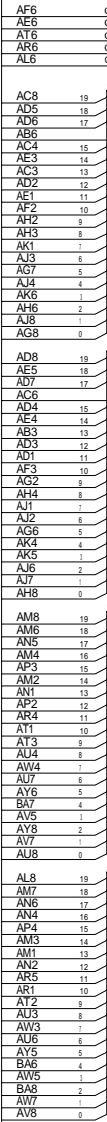
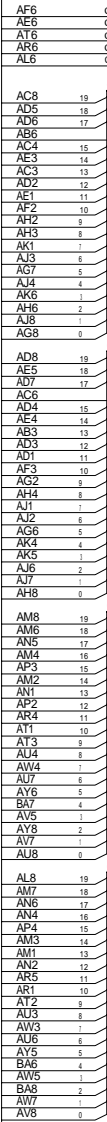
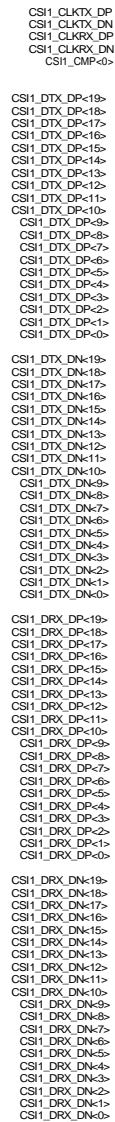
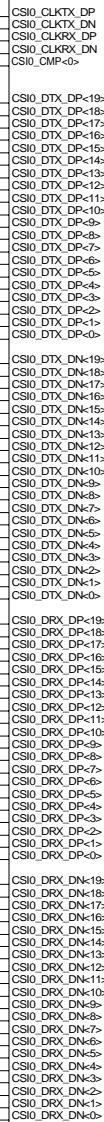
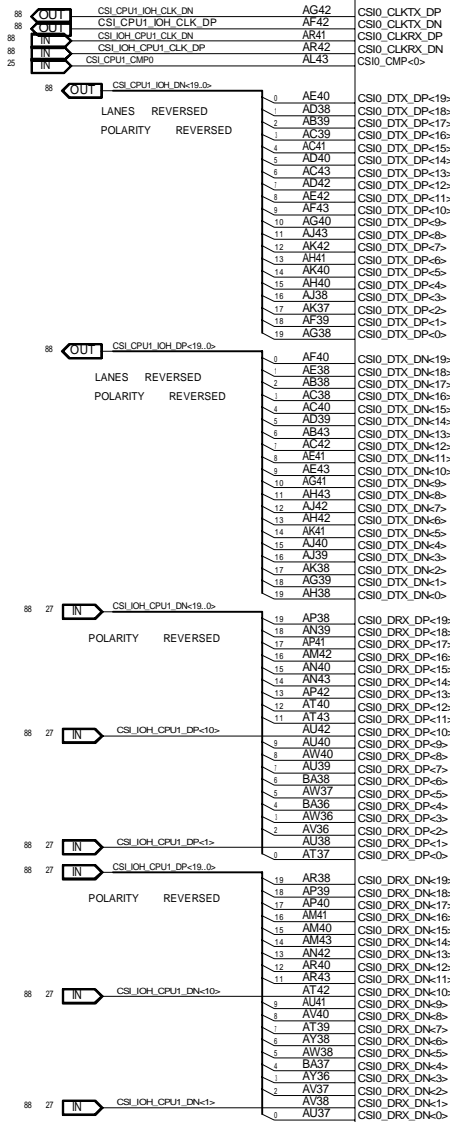
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XU1

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CPU1

XBGA1366

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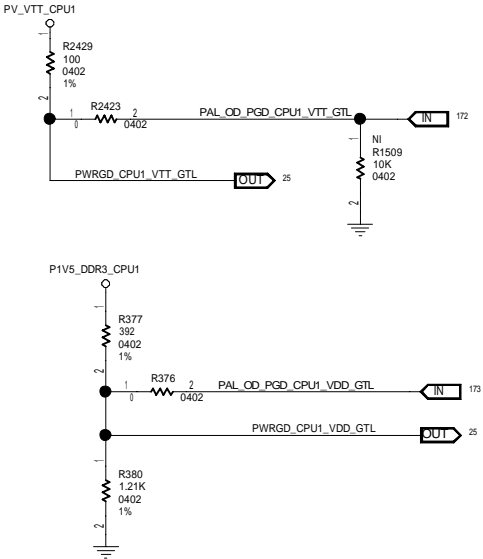
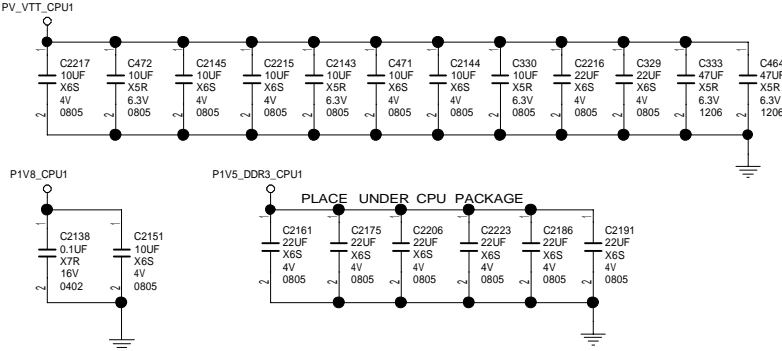
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CPU CAPACITOR	CAVITY REQUIREMENT:	CAPACITOR	NOTE
0805 PKG, 10UF, MINIMUM	OF X6S,	PREFER X7R,	AT LEAST 6.3V
1206 PKG, 47UF, MINIMUM	OF X6S,	PREFER X7R,	AT LEAST 6.3V
0805 PKG, 22UF, MINIMUM	OF X6S,	PREFER X7R,	AT LEAST 6.3V

PLACE UNDER CPU PACKAGE
2 0805 10UF AND 2 0805 22UF FOR VTTA
6 0805 10UF AND 2 1206 47UF FOR VTTD

THESE CAPS NEED TO HAVE PROPER TEMPERATURE RATING FOR 95W PROCESSOR



CPU1

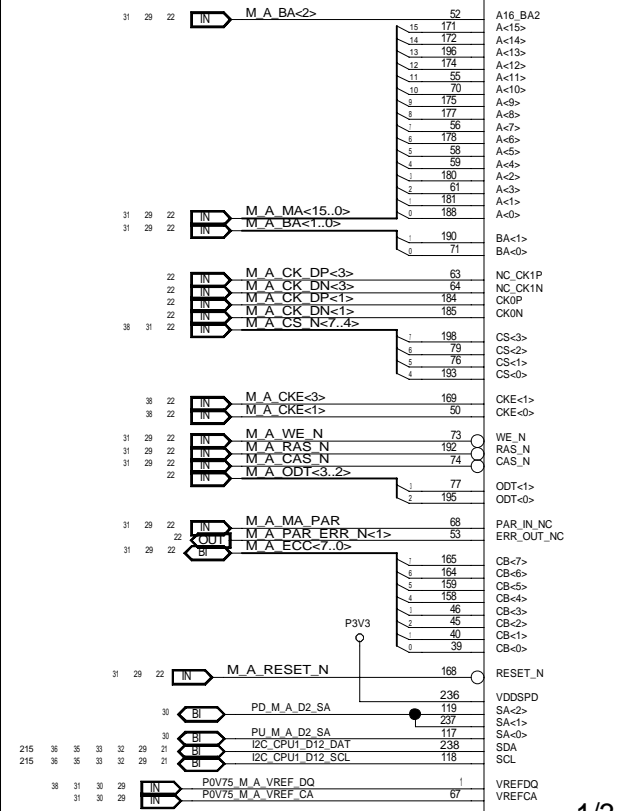
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J2
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CONN_240P_DDR3_FX



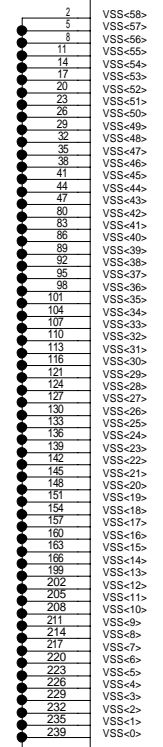
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CONN_TH_240P
I2C ADDR = A2h
MUX PORT 3

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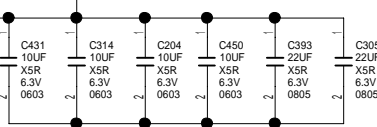
CONN_240P_DDR3_FX



3/3

CONN_TH_240P

P1V5_DDR3_CPU1



P0V75_DDR3_CPU1



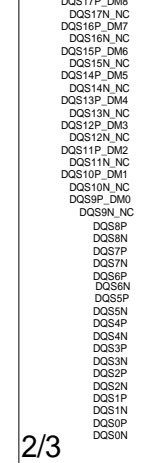
NC1

NC_TEST

J2

TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

2/3
CONN_TH_240P

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DDR3 CHANNEL A (2 OF 3)

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SIZE

B

DOCUMENT NUMBER

AMANDA

REV

B

SCALE:

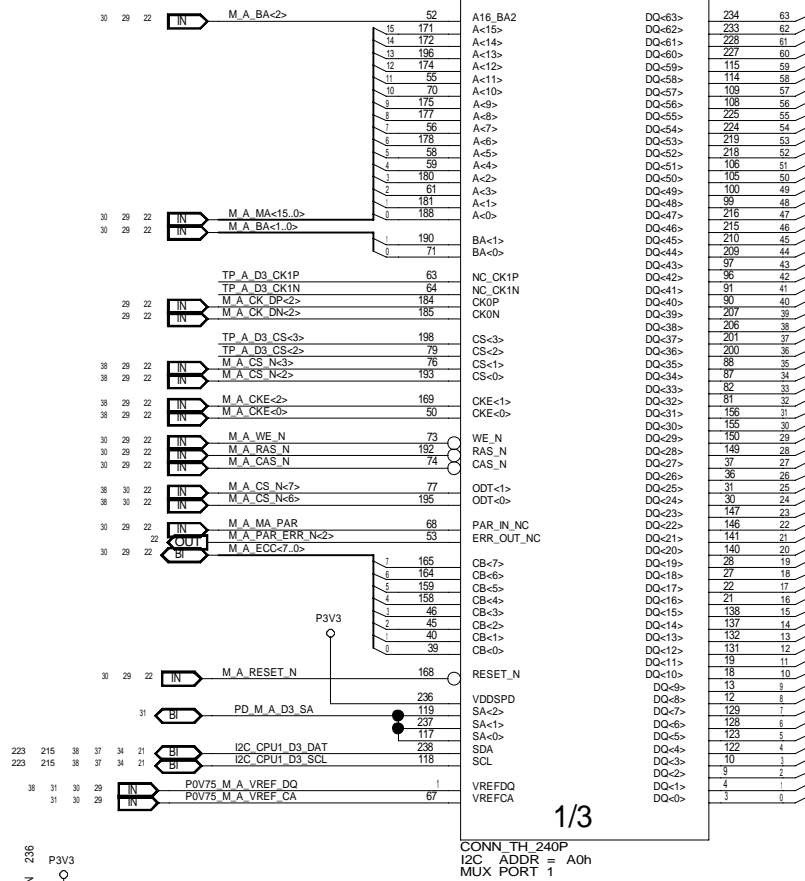
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SHEET 30 OF 247

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J3
TBD_ATH4007-8AD-4F

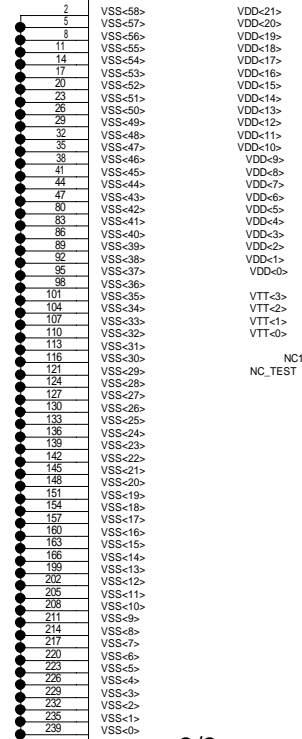
CONN_240P_DDR3_FX

CONN_TH_240P
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MUX PORT 1

M.A. DQ<63,0>

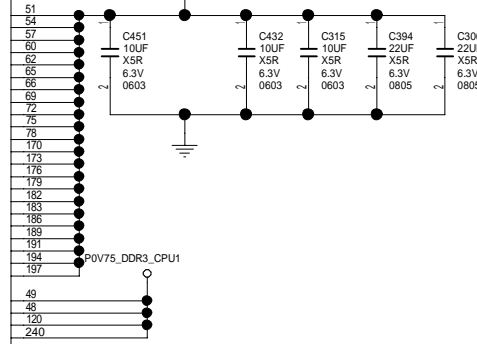
J3
TBD_ATH4007-8AD-4F

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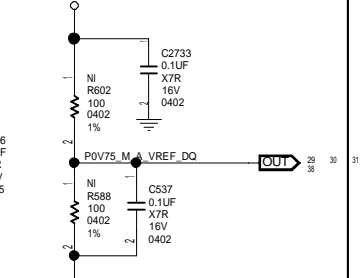
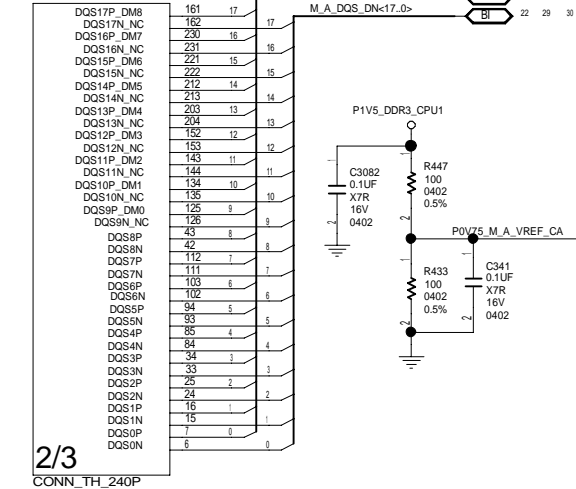


CONN_TH_240P

P1V5_DDR3_CPU1



P1V5_DDR3_CPU1

J3
TBD_ATH4007-8AD-4F
CONN_240P_DDR3_FX

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DDR3 CHANNEL A (3 OF 3)

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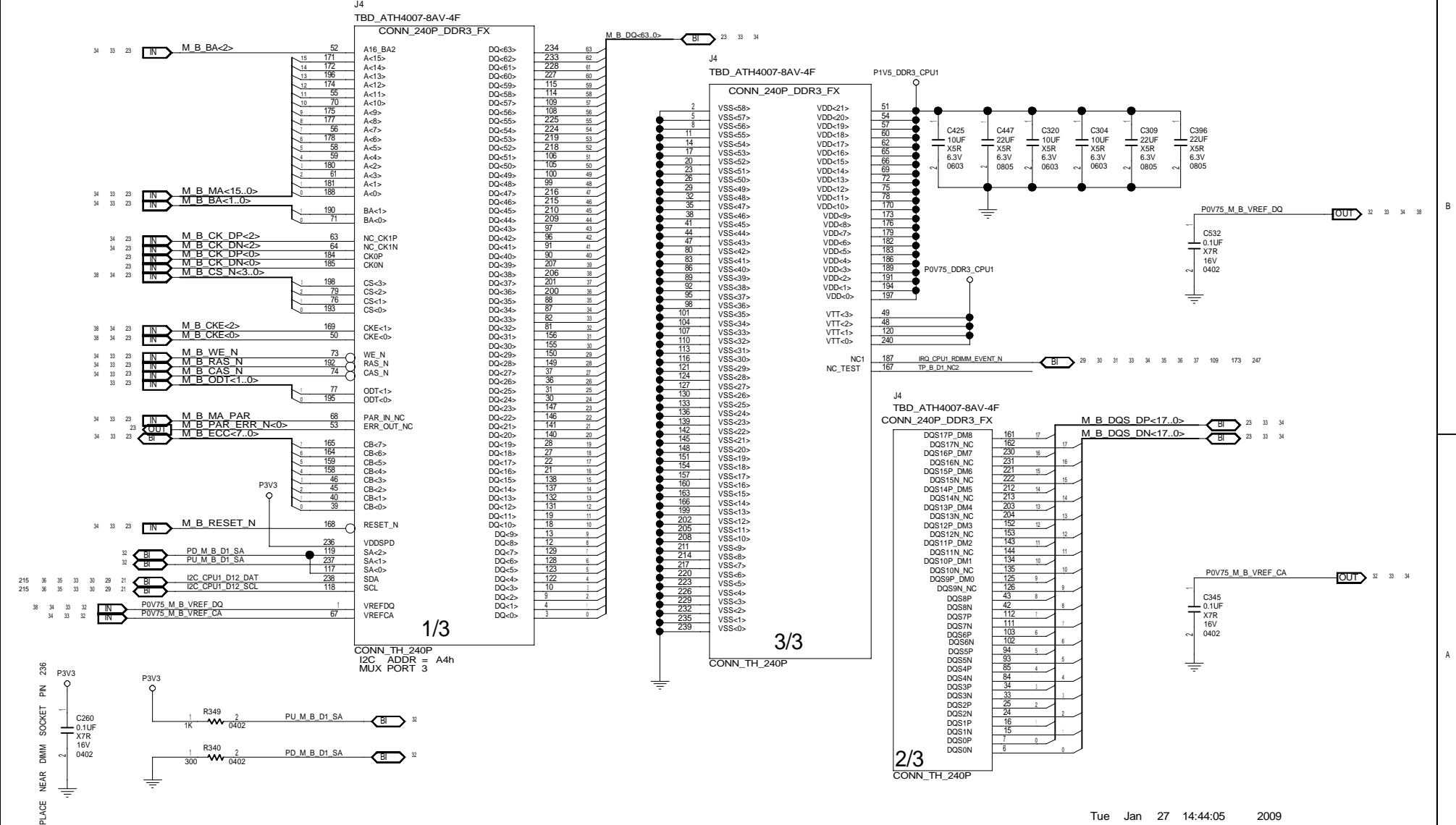
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BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

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DDR3 CHANNEL B (1 OF 3)

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DOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 32 OF 247

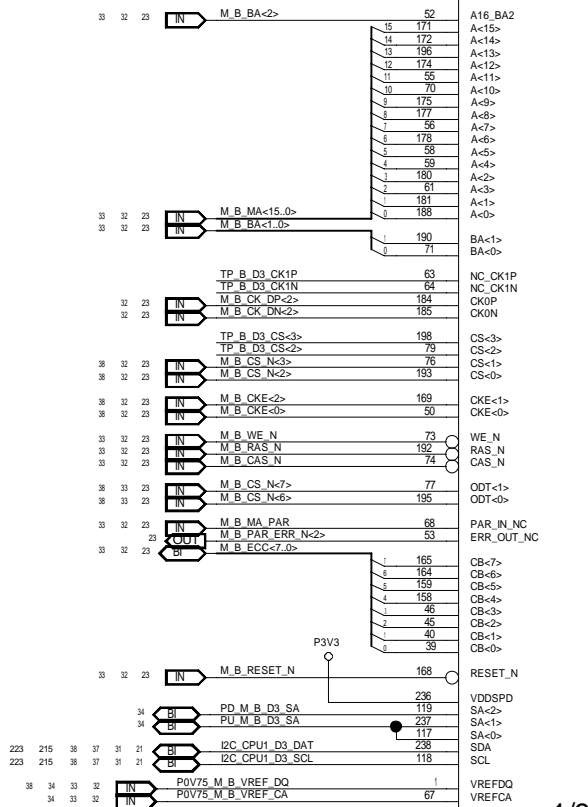


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J6

TBD_ATH4007-8AD-4F

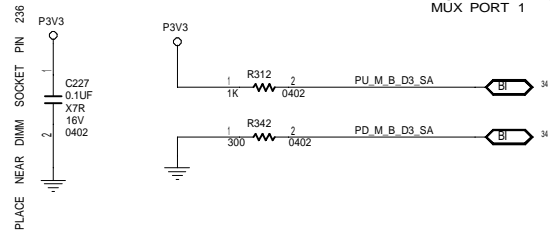
CONN_240P_DDR3_FX



ADDRESS = 0XA6

CONN_TH_240P
I2C_ADDR = A6h
MUX_PORT 1

1/3



DDR3 CHANNEL B (3 OF 3)

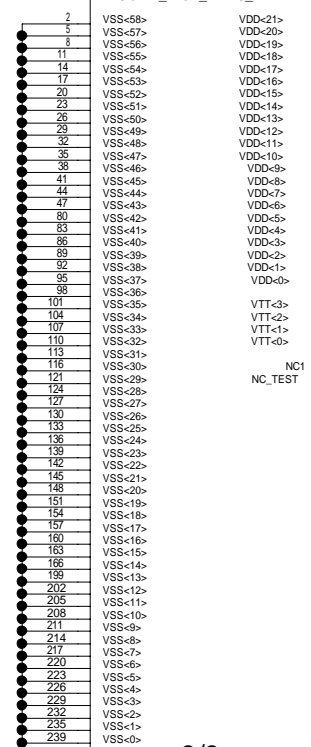
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M.B.DQ<63..0>

J6

TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX



CONN_TH_240P

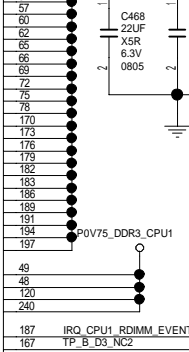
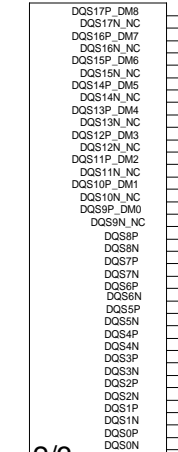
3/3

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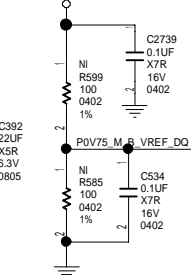
J6

TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

NC1
NC_TEST187 IRO_CPU1_RDIMM_EVENT_N
167 TP_B_D3_NC2J6
TBD_ATH4007-8AD-4F
CONN_240P_DDR3_FX2/3
CONN_TH_240P

P1V5_DDR3_CPU1



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BDOCUMENT NUMBER
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SCALE:

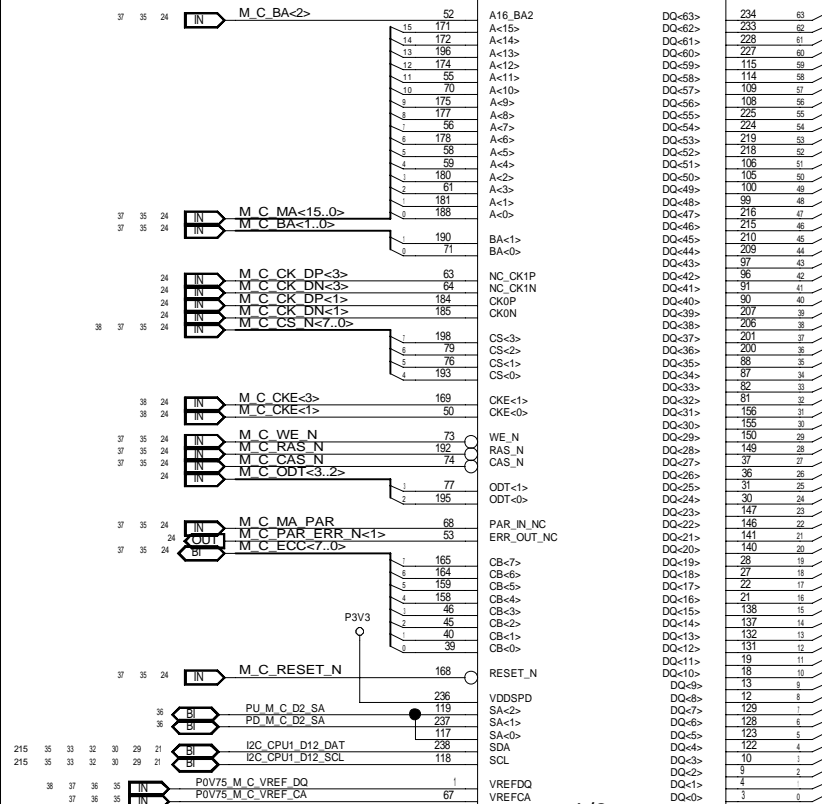
DO NOT SCALE DRAWING SHEET 34 OF 247



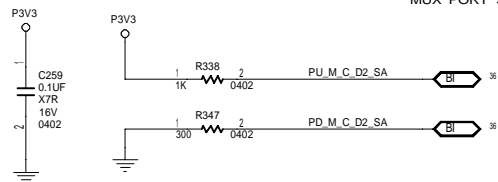
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J8
TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

CONN_TH_240P
I2C_ADDR = AAh
MUX PORT 3

PLACE NEAR DIMM SOCKET PIN 236

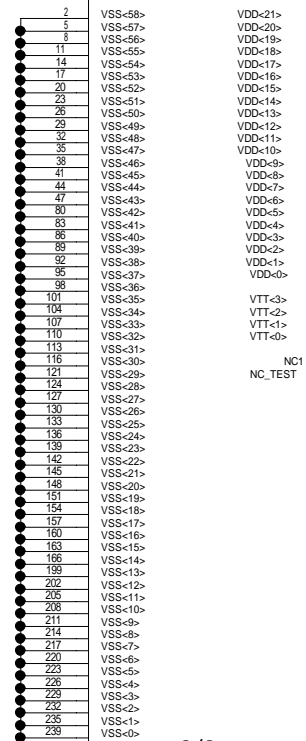


DDR3 CHANNEL C (2 OF 3)

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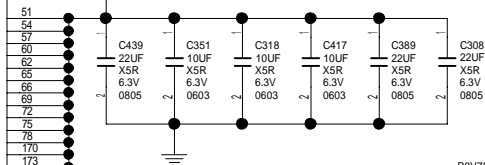
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TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX



CONN_TH_240P

P1V5_DDR3_CPU1



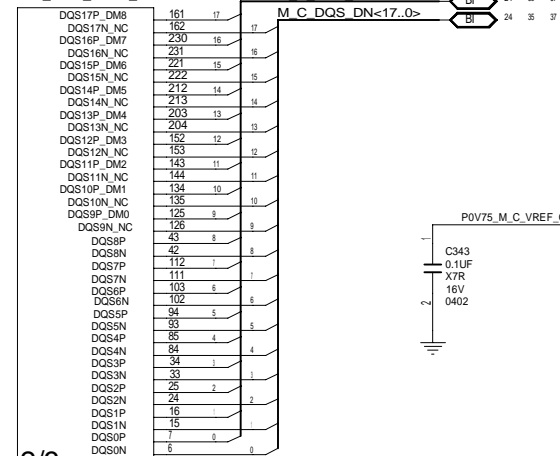
P0V75_DDR3_CPU1

NC1

NC_TEST

J8
TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

2/3
CONN_TH_240P

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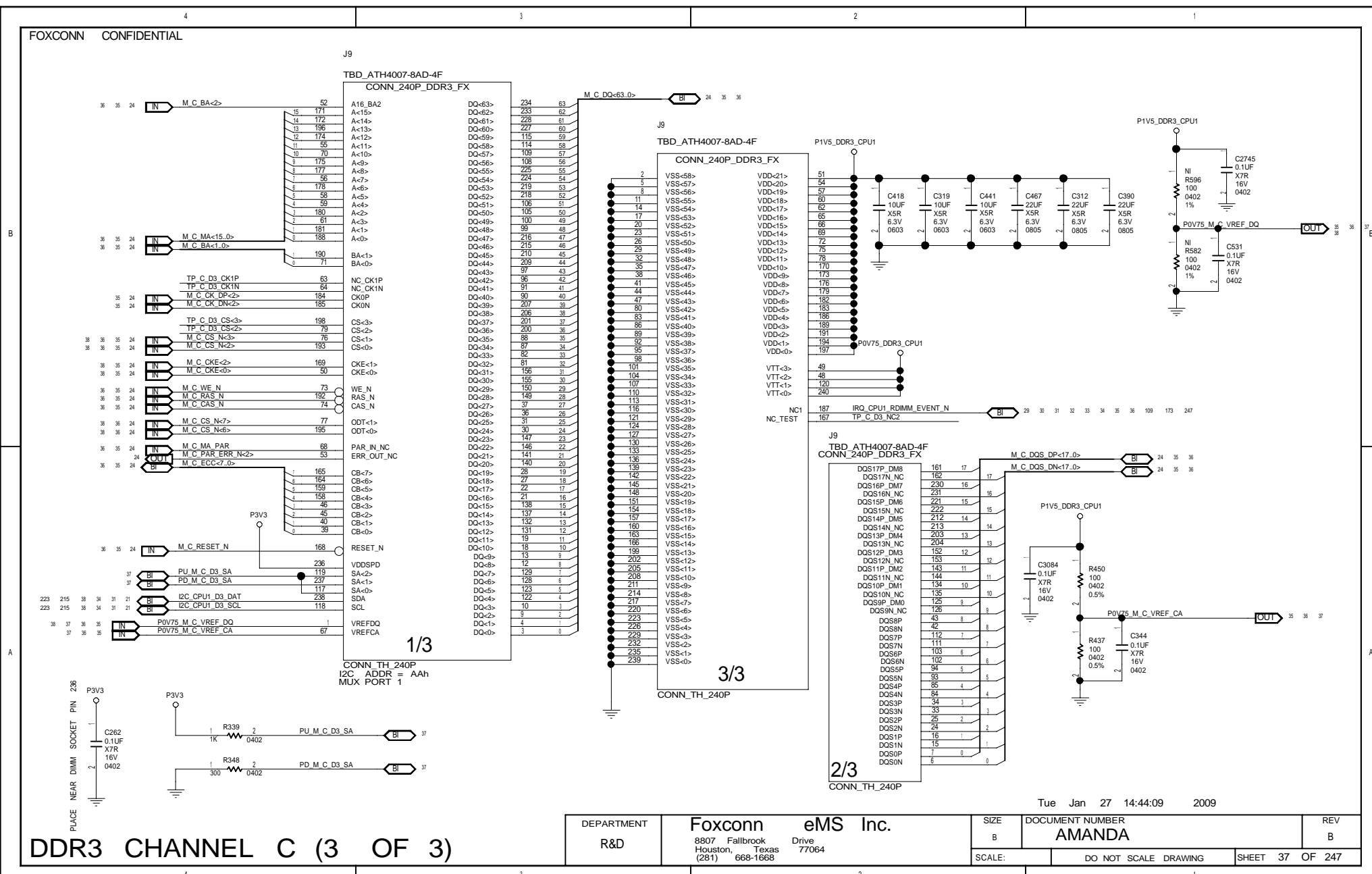
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BDOCUMENT NUMBER
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SCALE:

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DDR3 CHANNEL C (3 OF 3)

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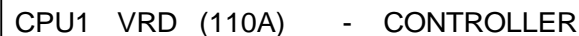
REV
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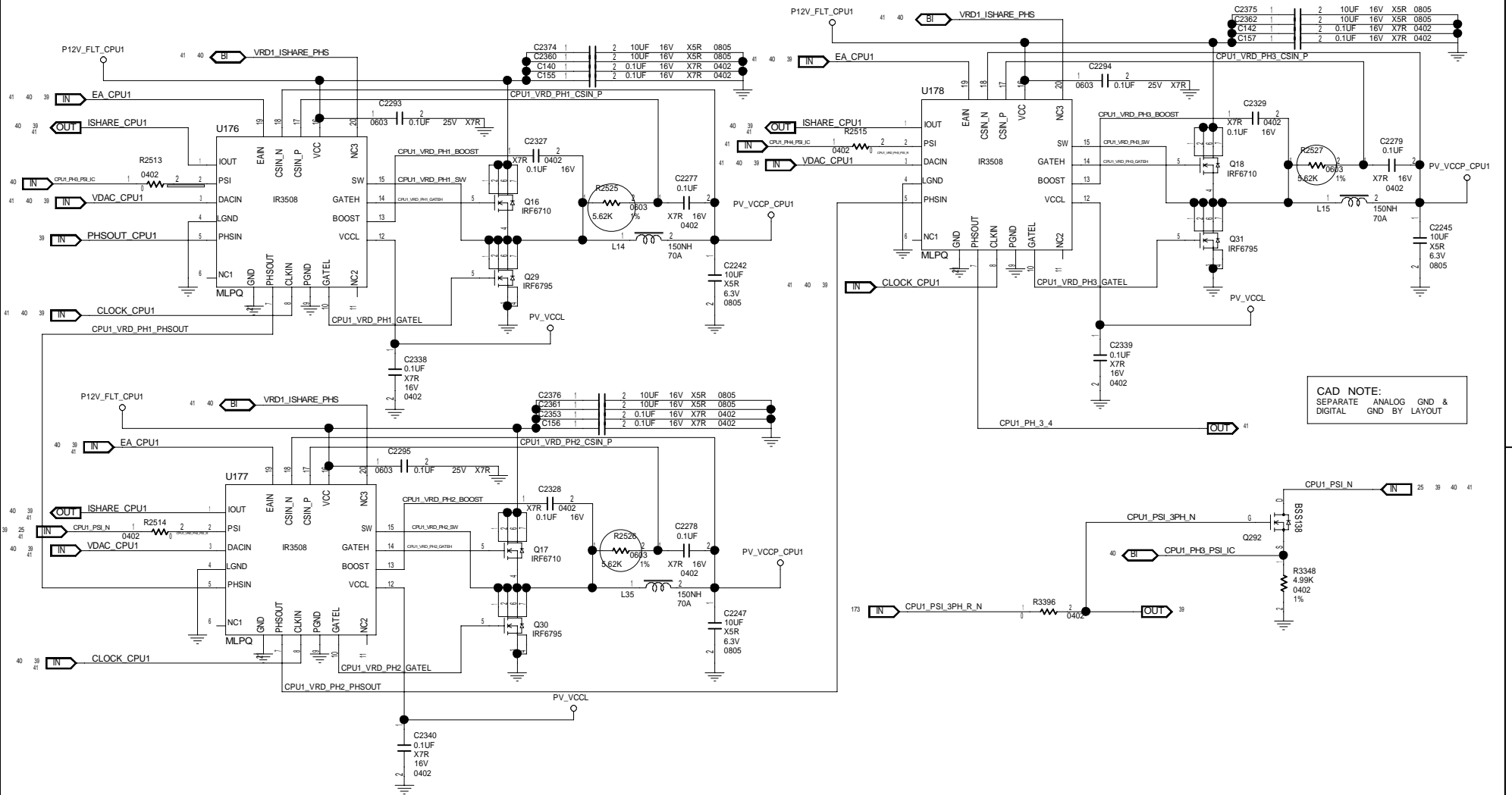
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CPU1 VRD (110A) - PHASE 1-3

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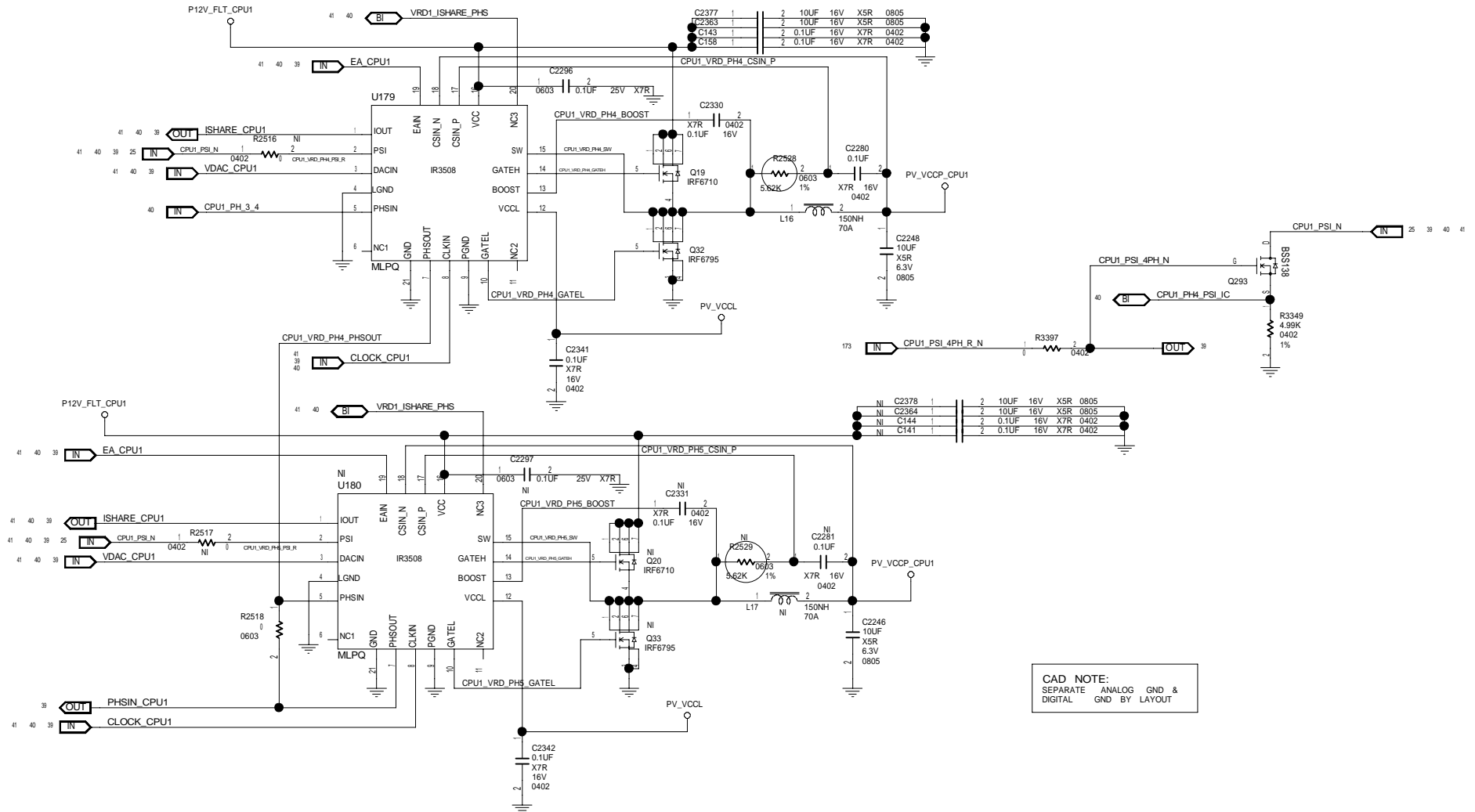
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CPU1 VRD (110A) - PHASE 4-5

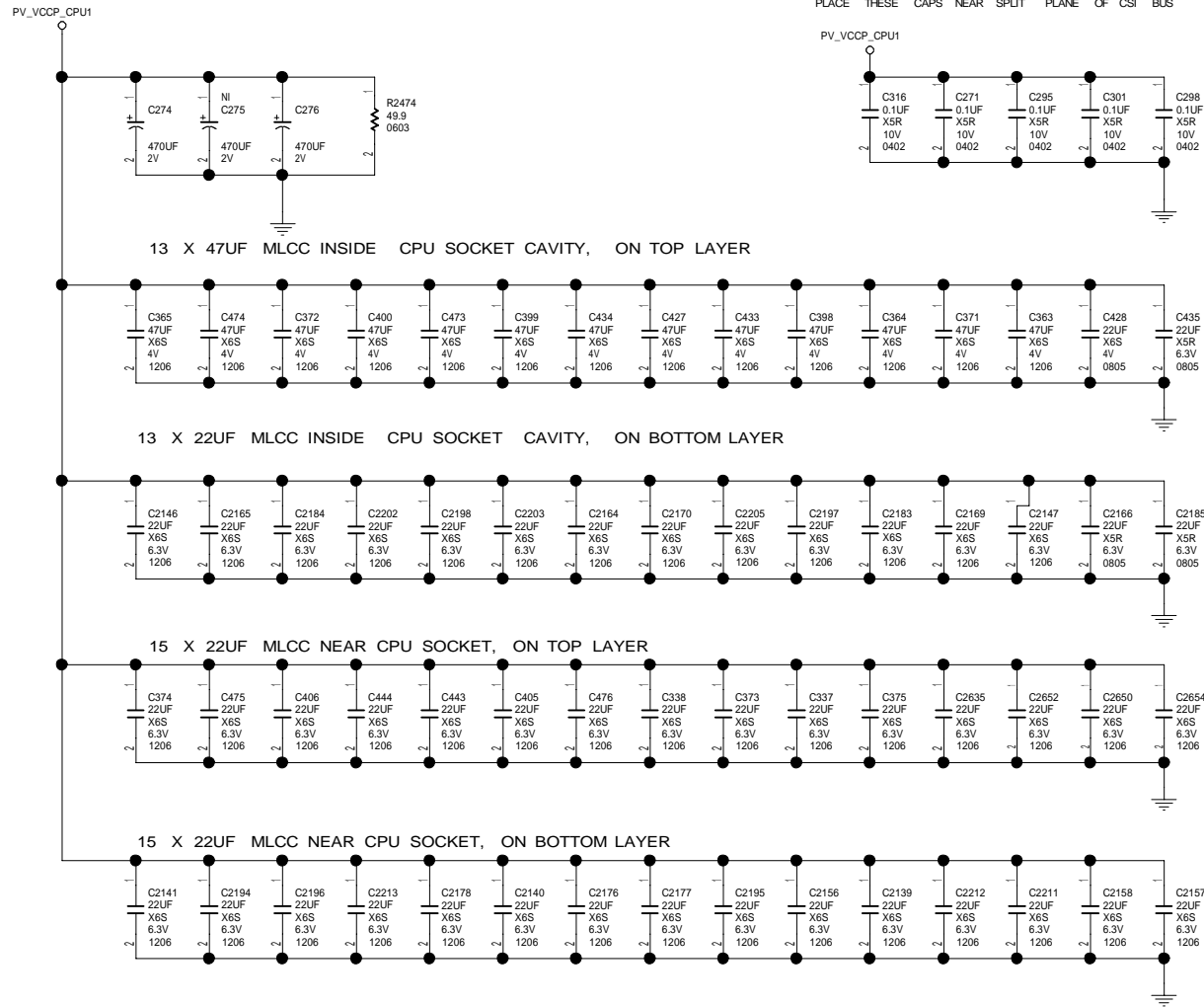
DEPARTMENT
R&DFoxconn eMS Inc.
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BDOCUMENT NUMBER
AMANDAREV
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SCALE:

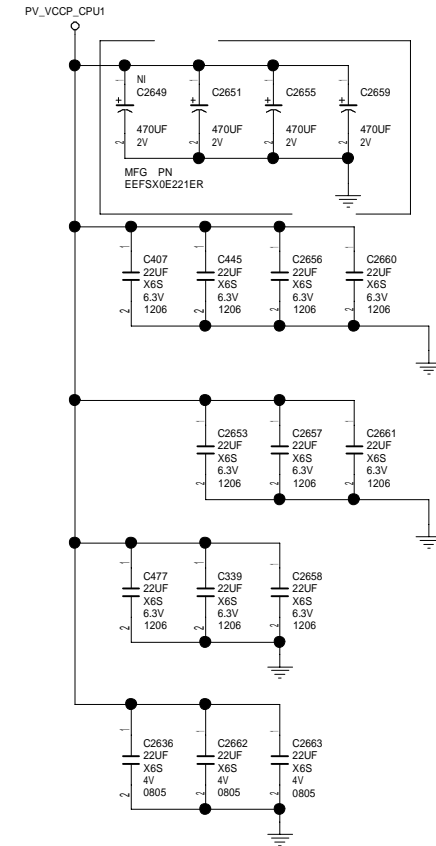
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EXTRA CAPS PER IR MARKUP



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CPU1 VRD (110A) - DECOUPLING

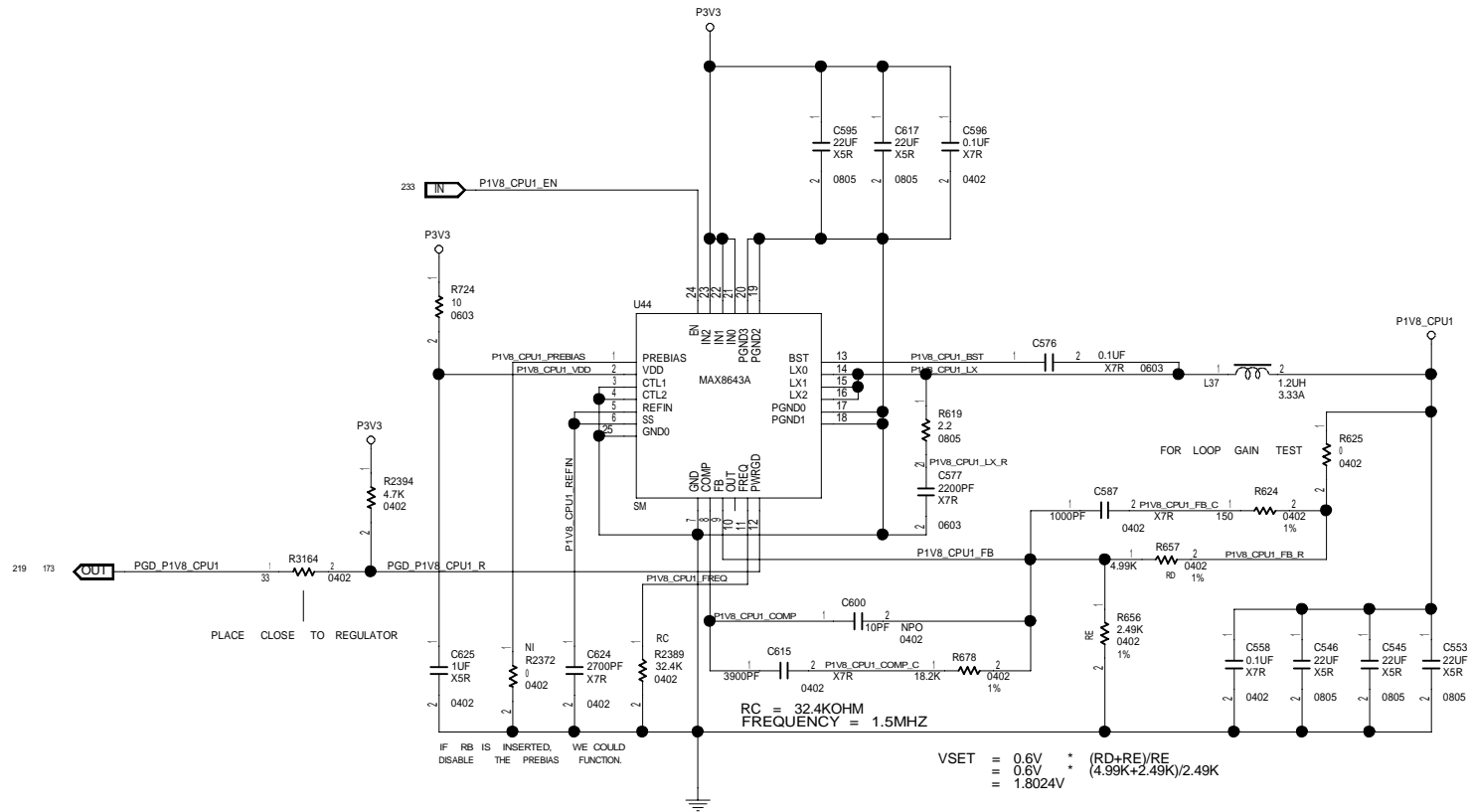
DEPARTMENT
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(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
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SCALE:

DO NOT SCALE DRAWING

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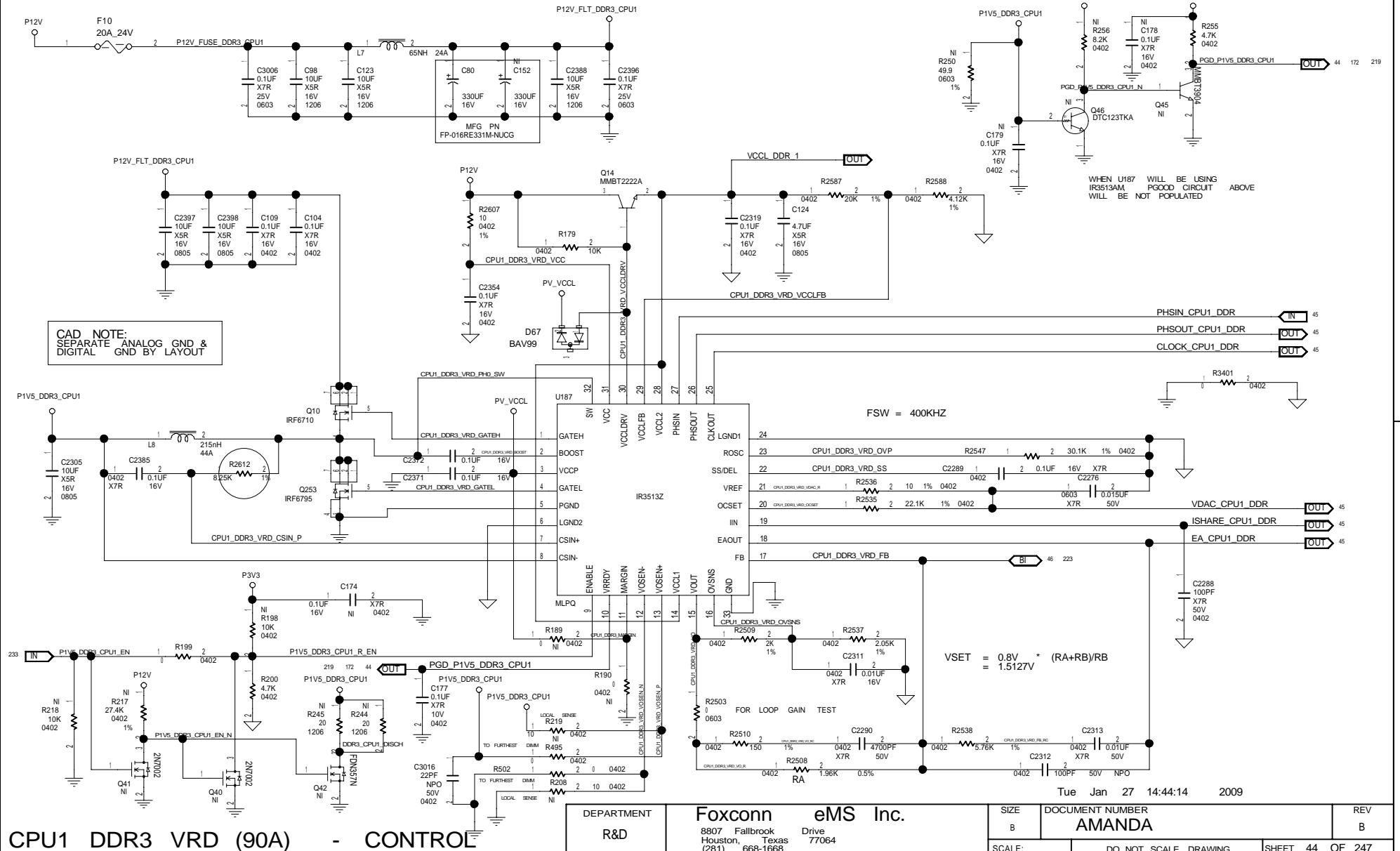


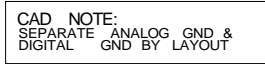
1.8V CPU1 PLL (1.5A)

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SCALE:	DO NOT SCALE	DRAWING	SHEET 43 OF 247	

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CPU1 DDR3 (90A) - PHASE 1-3

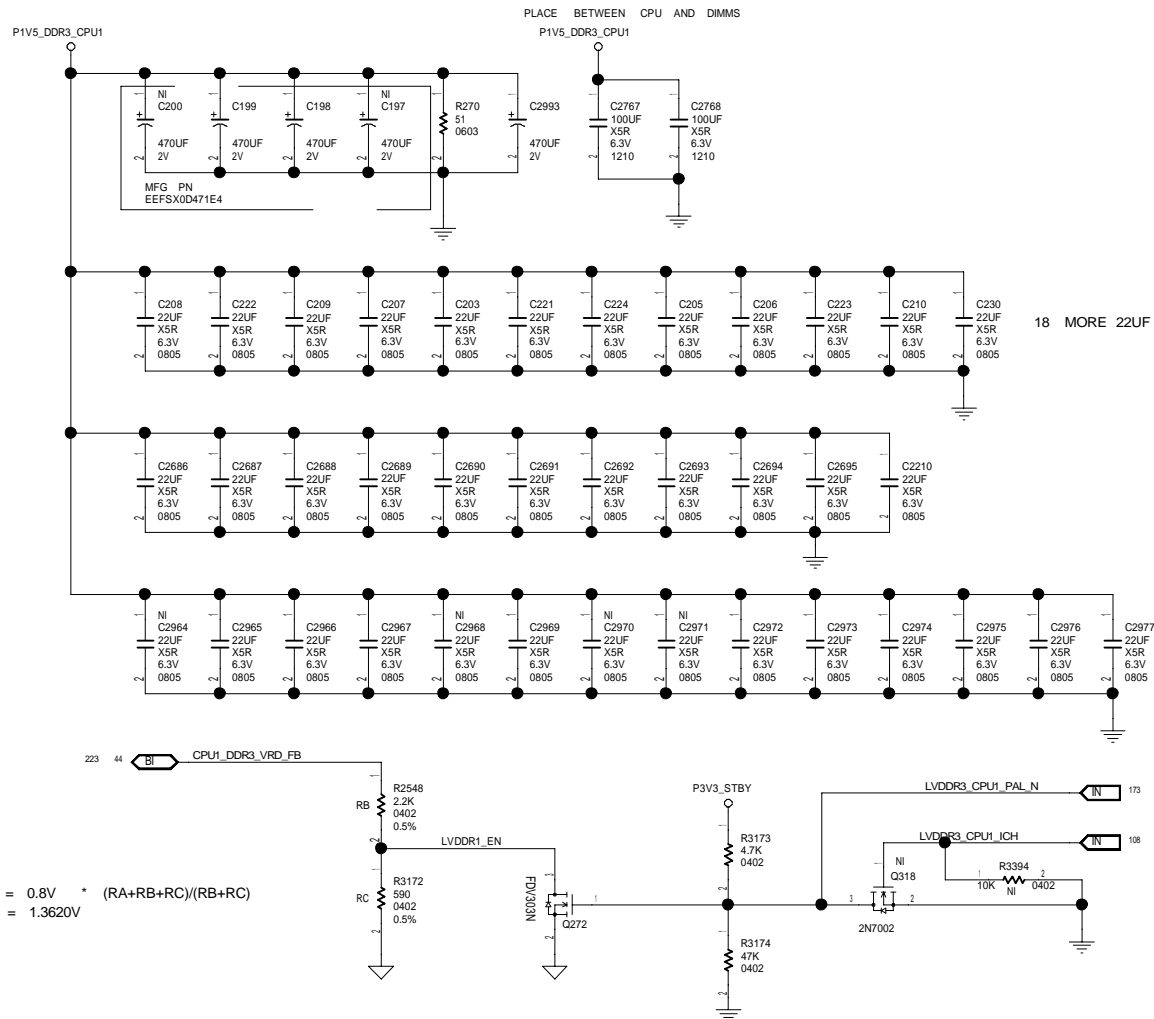
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DOCUMENT NUMBER	AMANDA
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REV
B

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CPU1 DDR3 VRD (90A) - DECOUPLING

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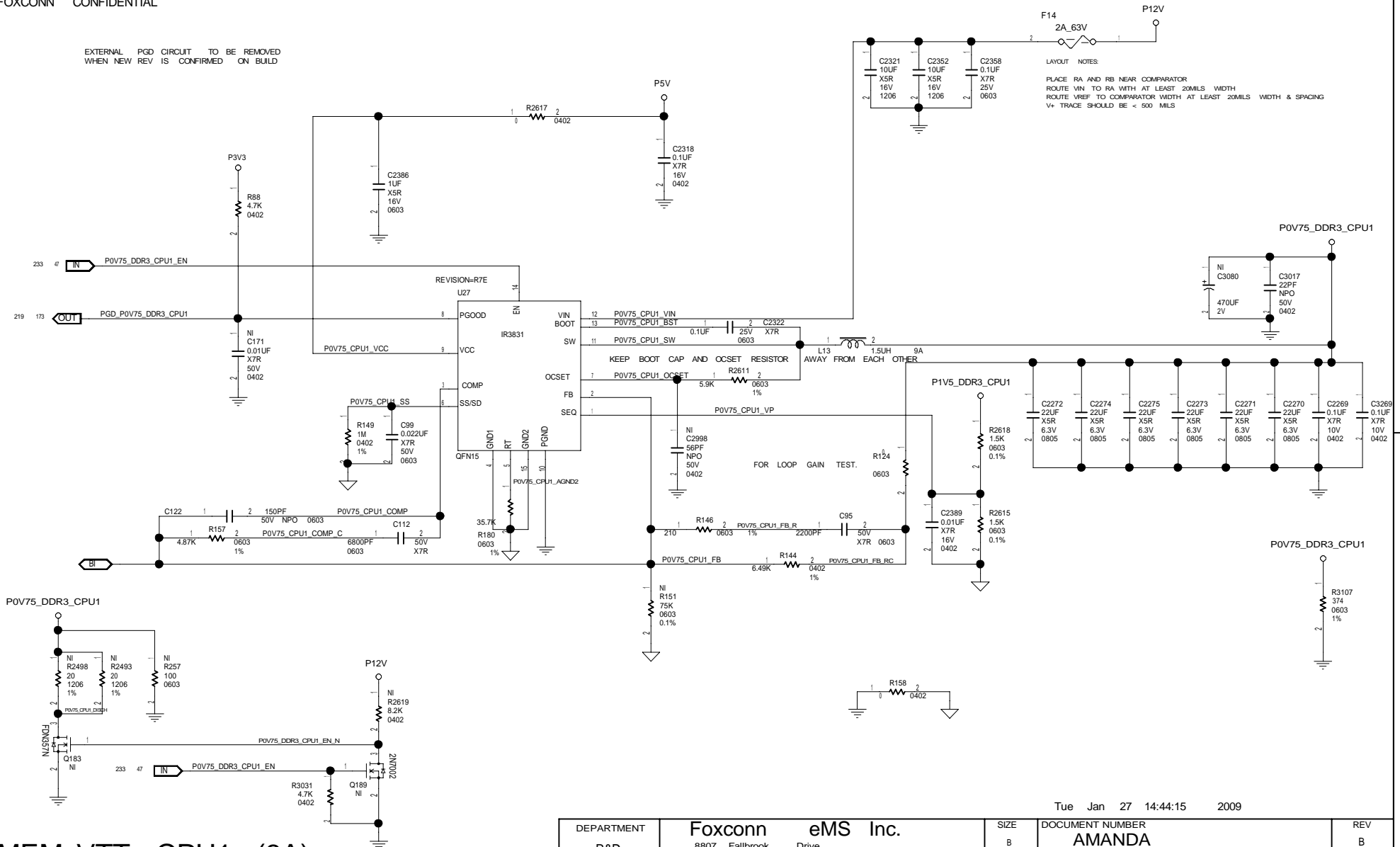
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SHEET 46 OF 247

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EXTERNAL PGD CIRCUIT TO BE REMOVED
WHEN NEW REV IS CONFIRMED ON BUILD

MEM VTT CPU1 (8A)

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SCALE:

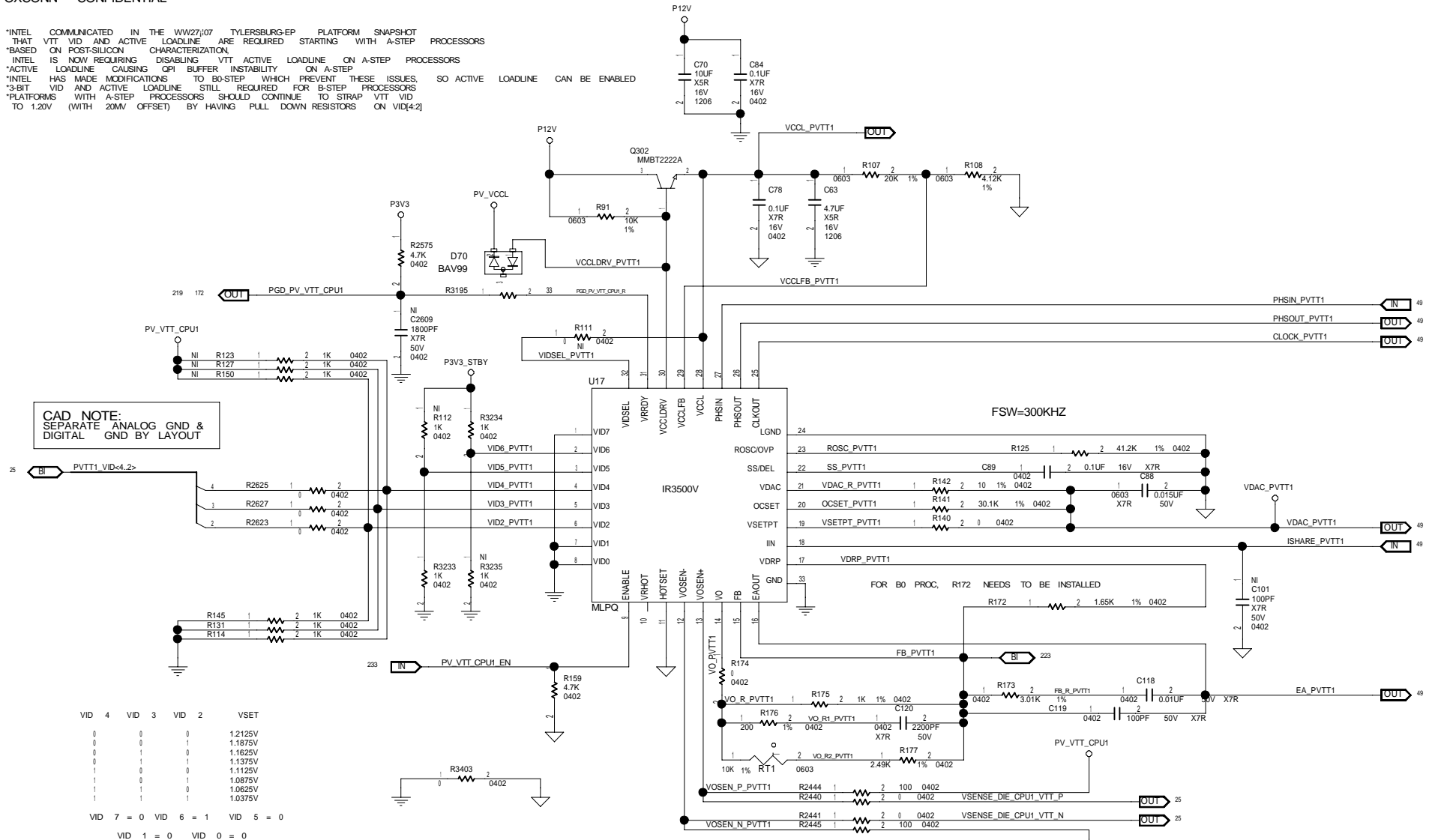
DO NOT SCALE DRAWING

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*INTEL COMMUNICATED IN THE W/27/07 TYLERSBURG-EP PLATFORM SNAPSHOT THAT VTT VID AND ACTIVE LOADLINE ARE REQUIRED STARTING WITH A-STEP PROCESSORS
 *BASED ON POST-SILICON CHARACTERIZATION
 *INTEL IS NOW REQUIRING DISABLING VTT ACTIVE LOADLINE ON A-STEP PROCESSORS
 *ACTIVE LOADLINE CAUSING GPI BUFFER INSTABILITY ON A-STEP PROCESSORS
 *INTEL HAS MADE MODIFICATIONS TO B0-STEP WHICH PREVENT THESE ISSUES, SO ACTIVE LOADLINE CAN BE ENABLED
 *3-BIT VID AND ACTIVE LOADLINE STILL REQUIRED FOR B-STEP PROCESSORS
 *PLATFORMS WITH A-STEP PROCESSORS SHOULD CONTINUE TO STRAP VTT VID TO 1.20V (WITH 20MV OFFSET) BY HAVING PULL DOWN RESISTORS ON VID[4:2]



CPU1 VTT (18A) - CONTROL

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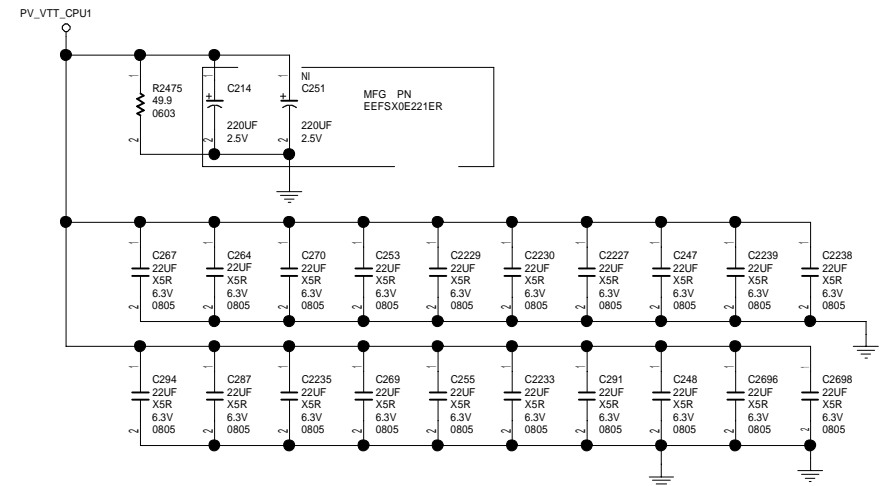
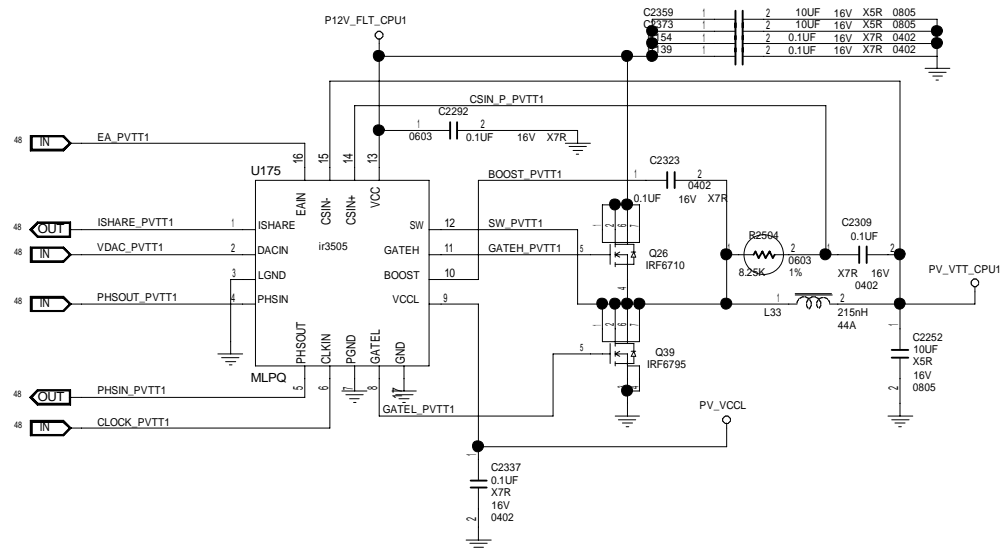
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CPU1 VTT (18A) - PHASE

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SCALE:	DO NOT SCALE DRAWING	SHEET 49 OF 247		

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XU2

TBD

GAINESTOWN

SOCKET_ B

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62 V4 DDR0_DQ<62>
61 U3 DDR0_DQ<61>
60 U1 DDR0_DQ<60>
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39 F2 DDR0_DQ<39>
38 F3 DDR0_DQ<38>
37 C5 DDR0_DQ<37>
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33 C4 DDR0_DQ<33>
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2 A27 DDR0_PAR_ERR<2>_N
2 B28 DDR0_PAR_ERR<1>_N
2 D25 DDR0_PAR_ERR<0>_N

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2 B11 DDR0_ODT<2>
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DDR0_RESET_N

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V2 16
P2 15
J2 14
D5 13
D39 12
H42 11
N42 10
V43 9
D34 8
W2 7
R2 6
K2 5
E3 4
B39 3
F41 2
L41 1
U43 0

B35 17
V3 16
P1 15
J1 14
D4 13
C39 12
G43 11
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M D WE_N

M D RAS_N

M D CAS_N

M D RESET_N

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XBGA1366

CPU2

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SCALE:

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3

2

1

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XU2

TBD

GAINESTOWN

SOCKET_ B

XBGA1366

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CPU2

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SOCKET_ B

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AL42
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AL36
AL35
AL32
AL29
AL26
AL23
AL22
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AL17
AL14
AL11
AL1
AK9
AK43
AK39
AK34
AK32
AK3
AK29
AK26
AK23
AK22
AK20
AK17
AK14
AK10
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AF35
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AE9
AE2
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AD41
AD37
AD33
AD11
AC9
AC7
AC5
AC2
AB7
AB42
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AA5

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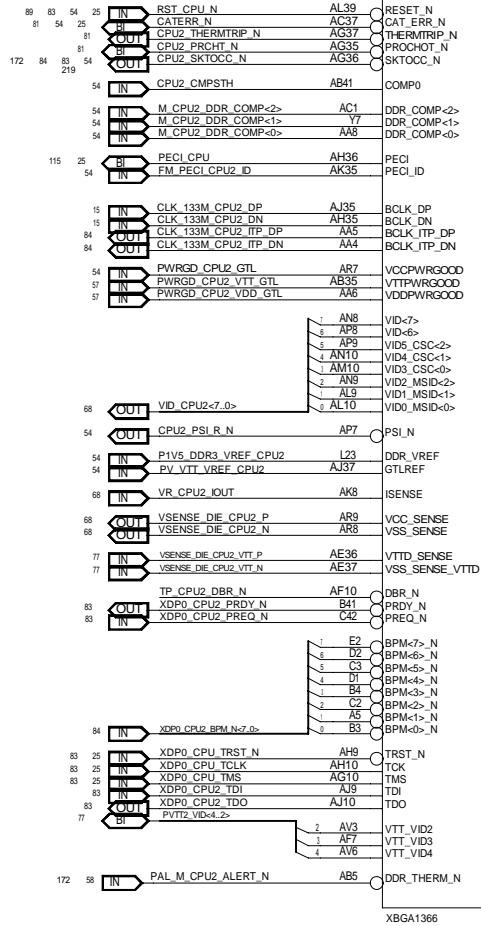
TBD
XU2

GAINESTOWN

SOCKET_ B

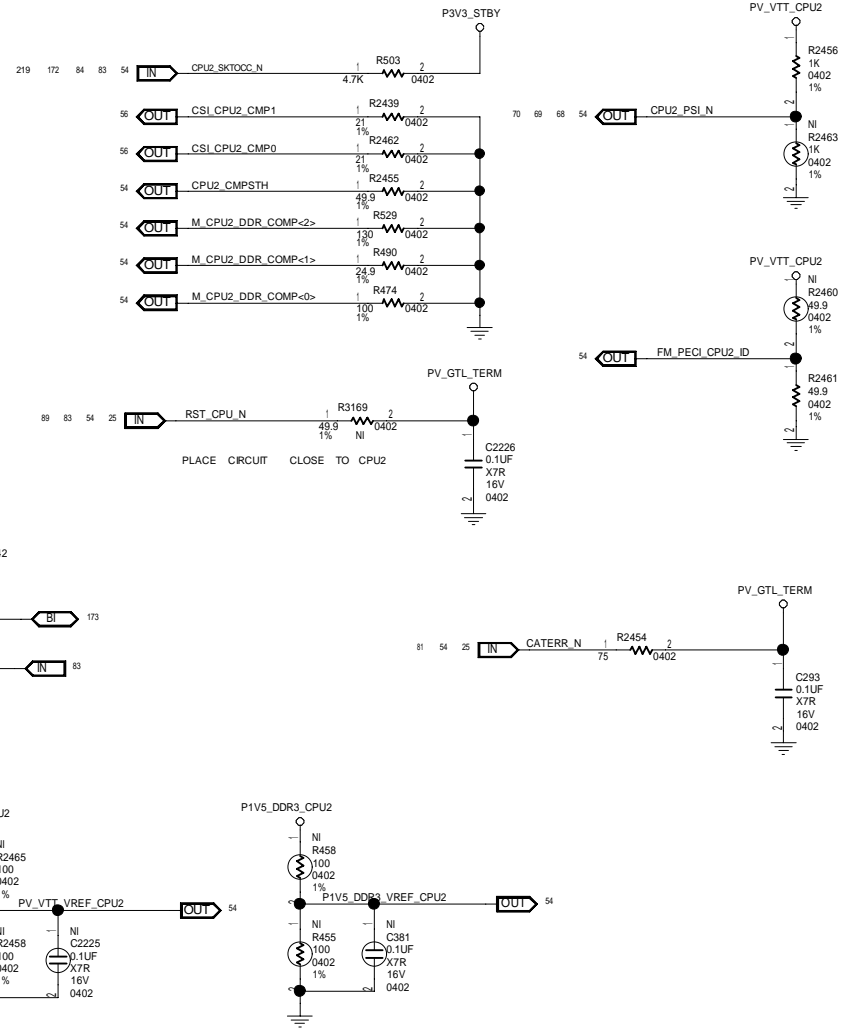
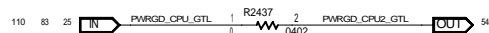
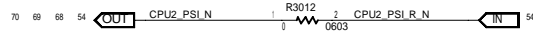
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RSVD<62>	F28	62
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RSVD<38>	AL40	38
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RSVD<36>	AK36	36
RSVD<35>	K15	35
RSVD<34>	L15	34
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RSVD<30>	AY40	30
RSVD<29>	AW41	29
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RSVD<27>	AW42	27
RSVD<26>	AV43	26
RSVD<25>	AV42	25
RSVD<24>	AV1	24
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RSVD<3>	AV35	3
RSVD<2>	AW39	2
RSVD<1>	AY35	1
RSVD<0>	AY39	0



XBG1366

POPULATE ZERO OHM WHEN USING B1 STEPPING OF NEHALEM



CPU2

DEPARTMENT

R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064

SIZE

B

Tue Jan 27 14:44:19 2009

DOCUMENT NUMBER

AMANDA

REV

B

SCALE:

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SHEET 54 OF 247



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XU2

GAINESTOWN

TBD

SOCKET_ B

1/10

XBG1366

CPU2

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

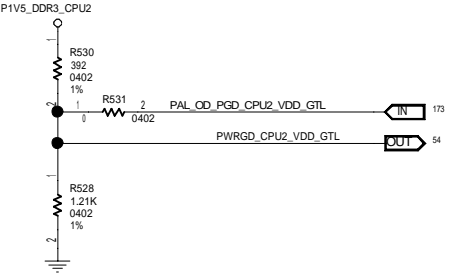
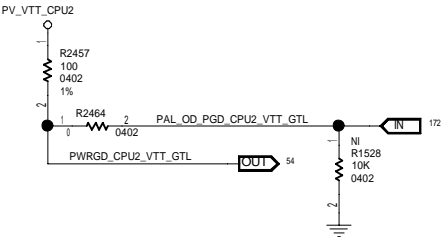
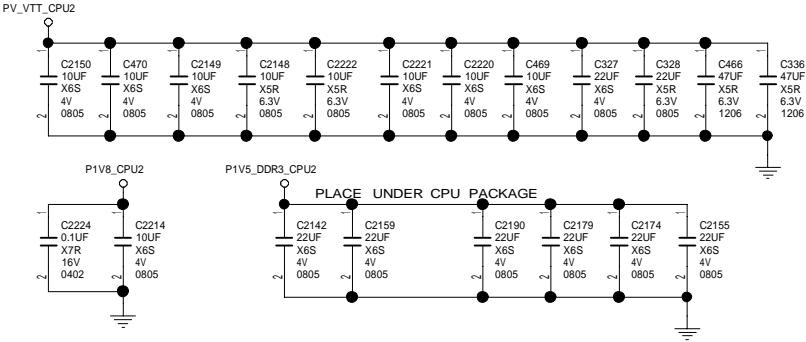
SHEET 56 OF 247

Tue Jan 27 14:44:20 2009

FOXCONN CONFIDENTIAL

CPU CAVITY CAPACITOR REQUIREMENT:		NOTE	
0805 PKG.	10UF	MINIMUM OF X6S,	PREFER X7R, AT LEAST 6.3V
1206 PKG.	47UF	MINIMUM OF X6S,	PREFER X7R, AT LEAST 6.3V
0805 PKG.	22UF	MINIMUM OF X6S,	PREFER X7R, AT LEAST 6.3V

PLACE UNDER CPU PACKAGE.
2 0805 10UF AND 2 0805 22UF FOR VTTA
6 0805 10UF AND 2 1206 47UF FOR VTTD
THESE CAPS NEED TO HAVE PROPER TEMPERATURE RATING FOR 95W PROCESSOR



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CPU2

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 57 OF 247		



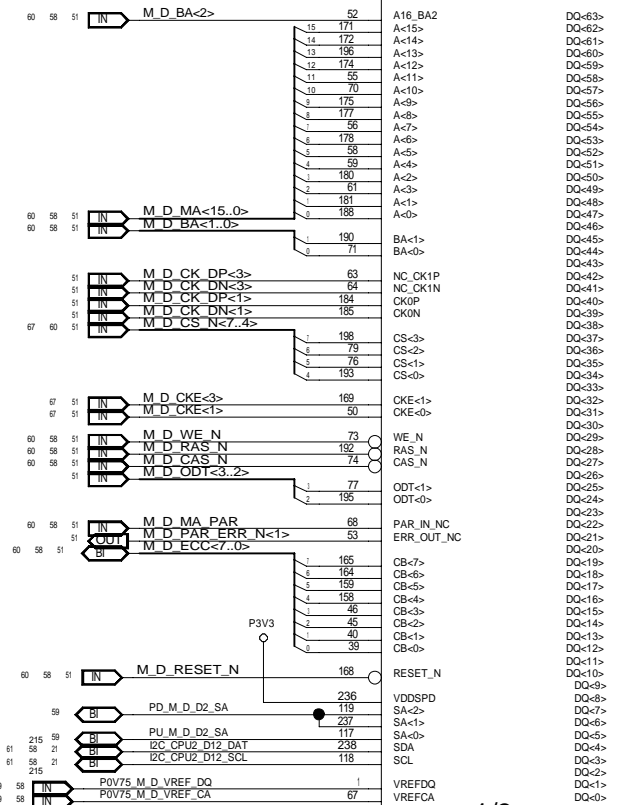
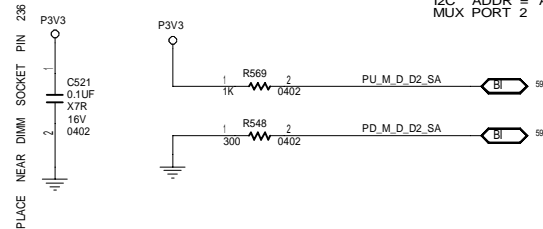
REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 58 OF 247
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FOXCONN CONFIDENTIAL

J11
TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

CONN_TH_240P
I2C_ADDR = A2h
MUX PORT 2

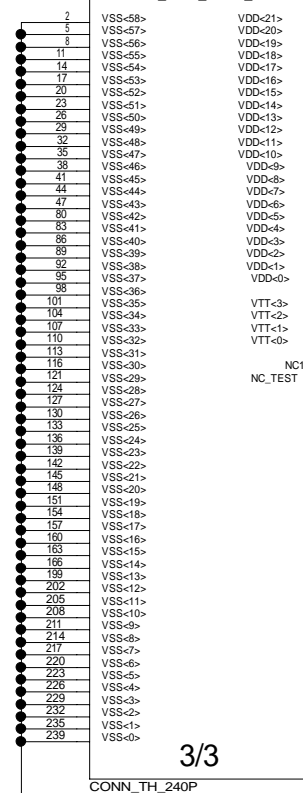
DDR3 CHANNEL D (2 OF 3)

M.D. DQ<63..0>

J11

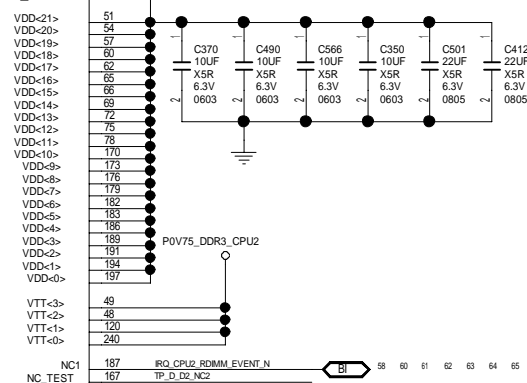
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CONN_240P_DDR3_FX

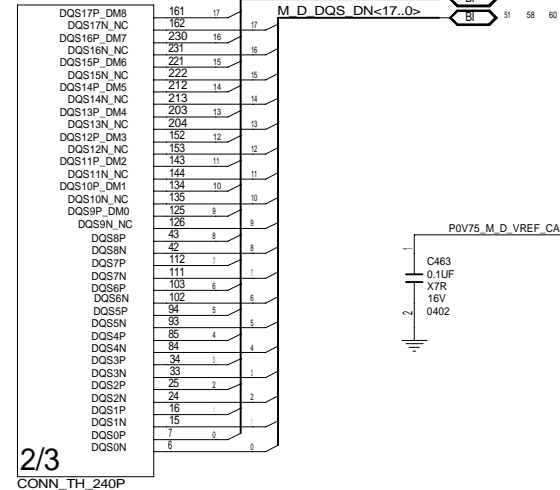


CONN_TH_240P

P1V5_DDR3_CPU2

J11
TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

2/3
CONN_TH_240P

Tue Jan 27 14:44:22 2009

DEPARTMENT
R&D

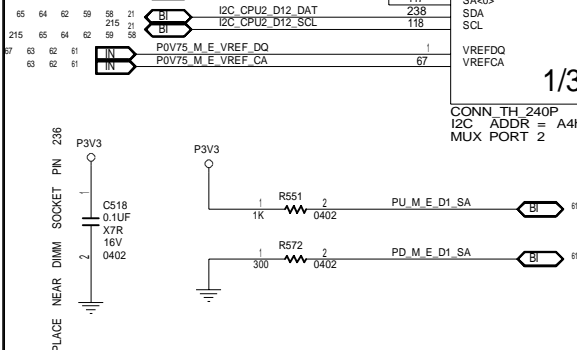
Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

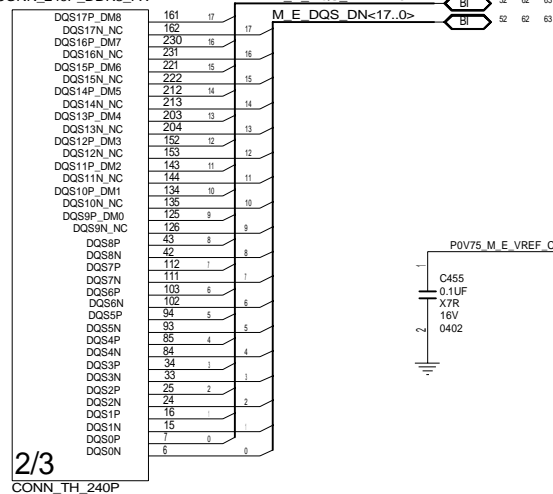
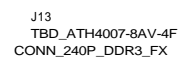
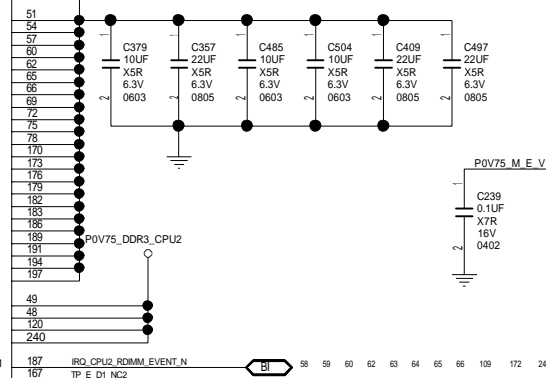
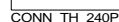
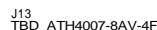
SCALE: DO NOT SCALE DRAWING SHEET 59 OF 247



J13
TBD_ATH4007-8AV-4F



```
CONN_TH_240P
I2C_ADDR = A4h
MUX_PORT 2
```



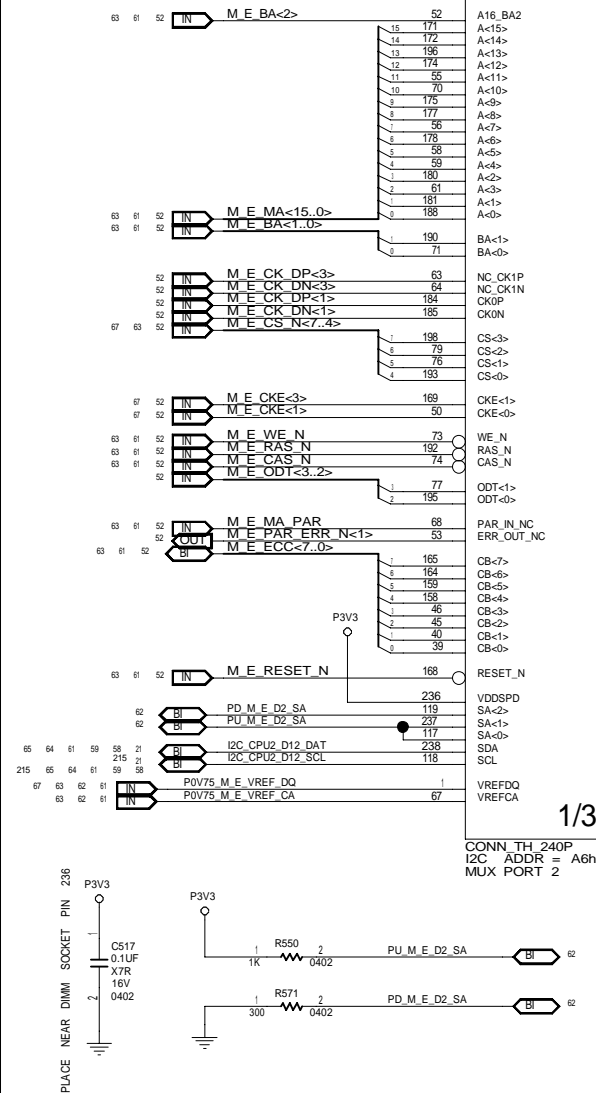
2/3
CONN_TH_240P

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SHEET 61 OF 247

FOXCONN CONFIDENTIAL

J14

TBD_ATH4007-8AD-4F
CONN_240P_DDR3_FX

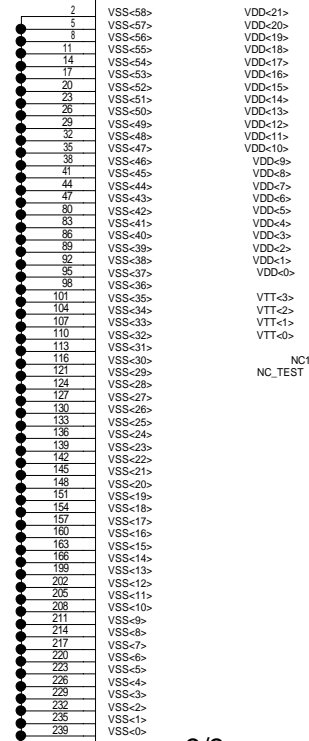
DDR3 CHANNEL E (2 OF 3)

M.E. DQ<63,0>

J14

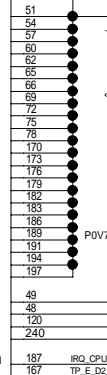
TBD_ATH4007-8AD-4F

CONN_240P_DDR3_FX

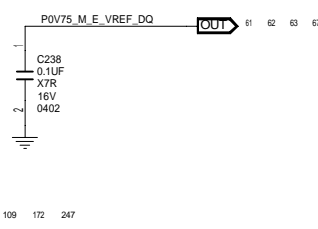
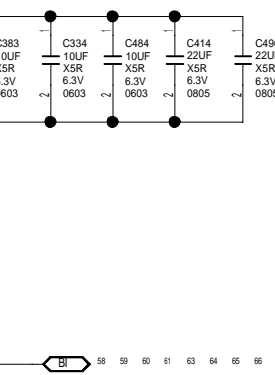
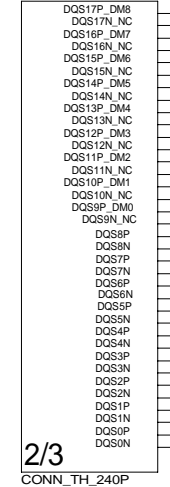


P1V5_DDR3_CPU2

CONN_240P_DDR3_FX



J14

TBD_ATH4007-8AD-4F
CONN_240P_DDR3_FX

Tue Jan 27 14:44:24 2009

DEPARTMENT
R&D

Foxconn eMS Inc.

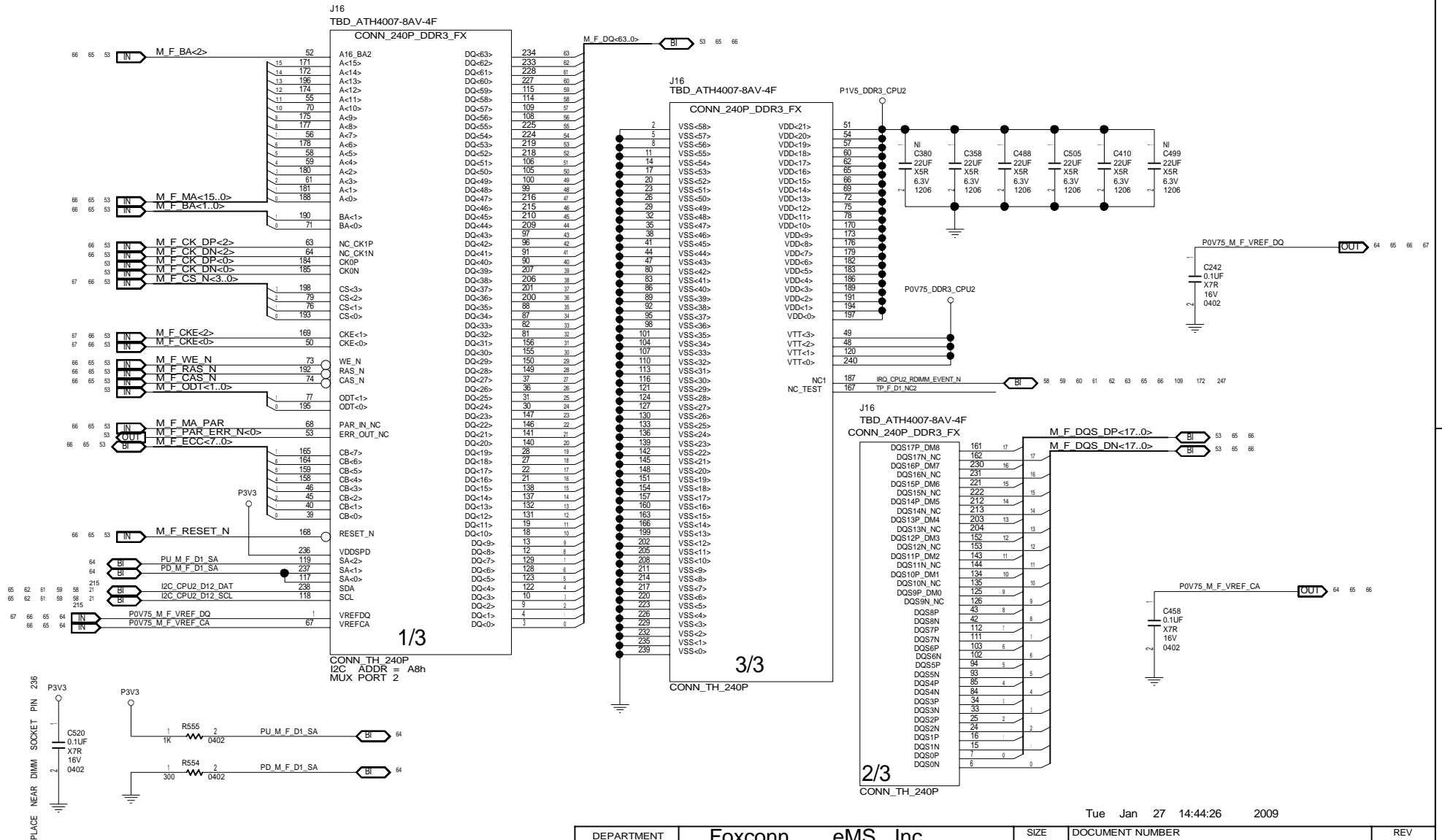
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING SHEET 62 OF 247



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DDR3 CHANNEL F (1 OF 3)

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

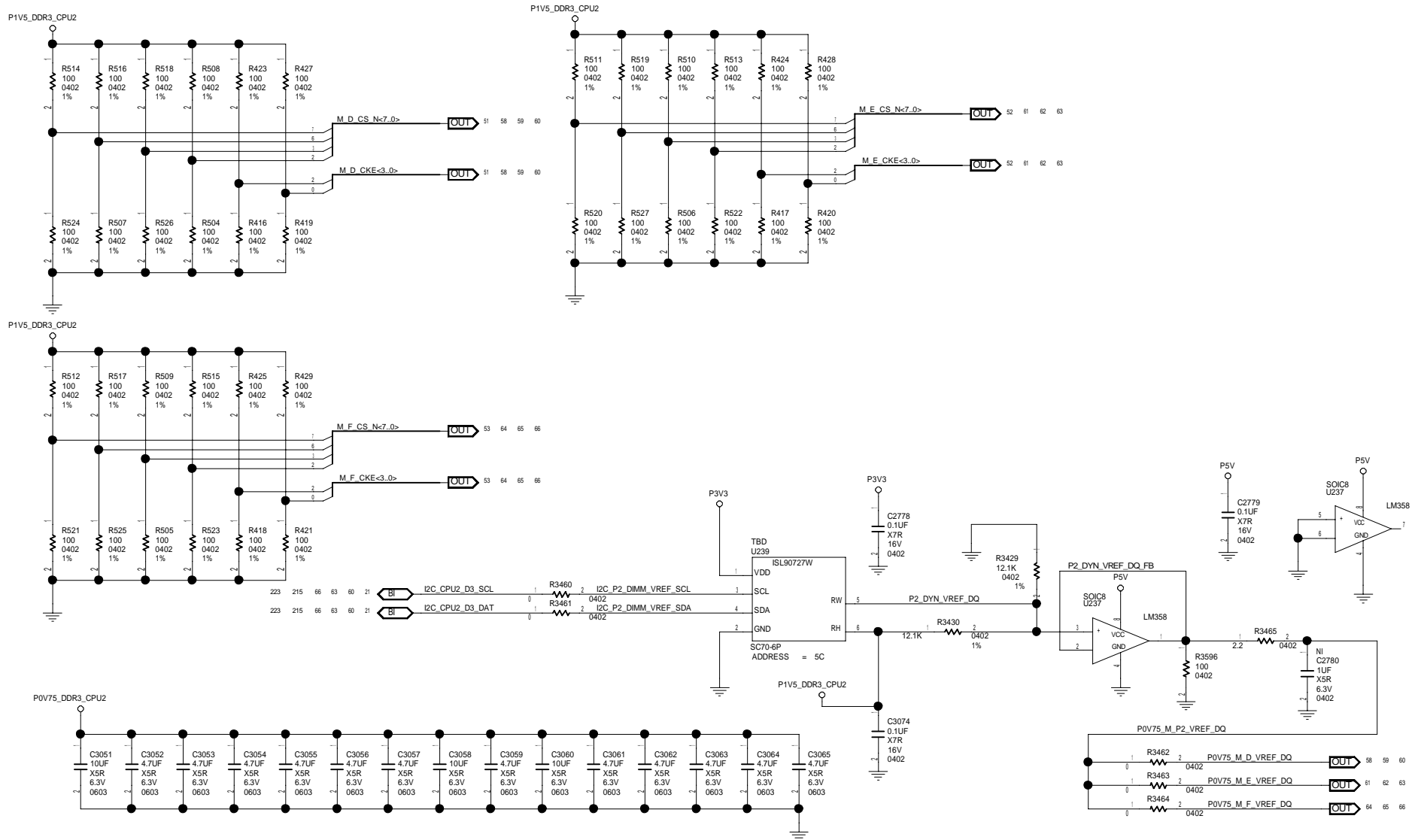
SHEET 64 OF 247

Tue Jan 27 14:44:26 2009





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DDR CPU2 MISC

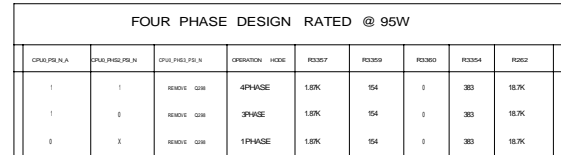
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

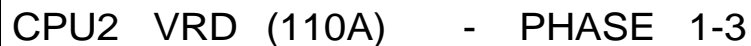
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SHEET 67 OF 247

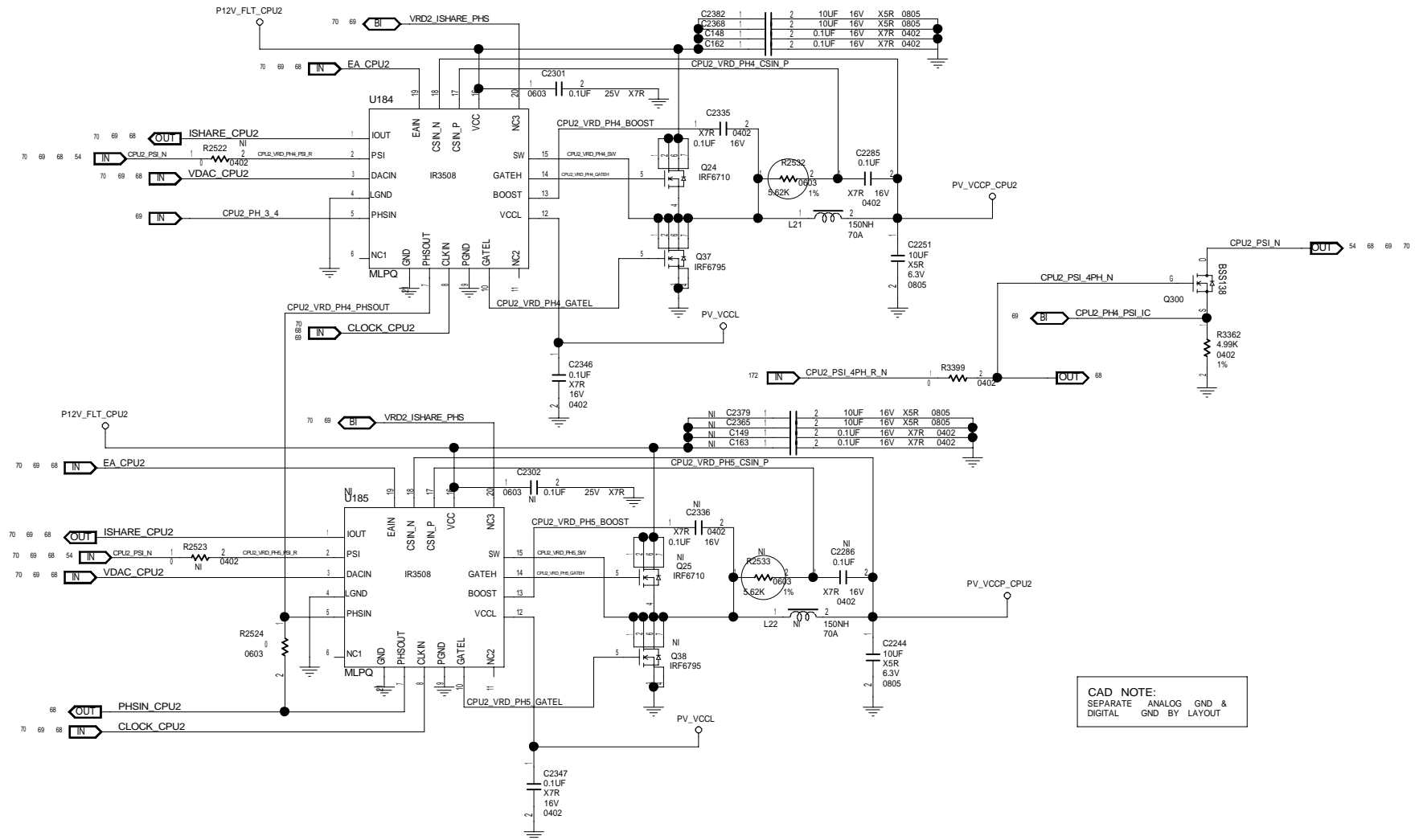
Tue Jan 27 14:44:28 2009



```
VID[5:0]=101101      FOR 4-PHASE
VID[5:0]=111110      FOR 5-PHASE
```

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CPU2 VRD (110A) - PHASE 4-5

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
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(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 70 OF 247

Tue Jan 27 14:44:30 2009

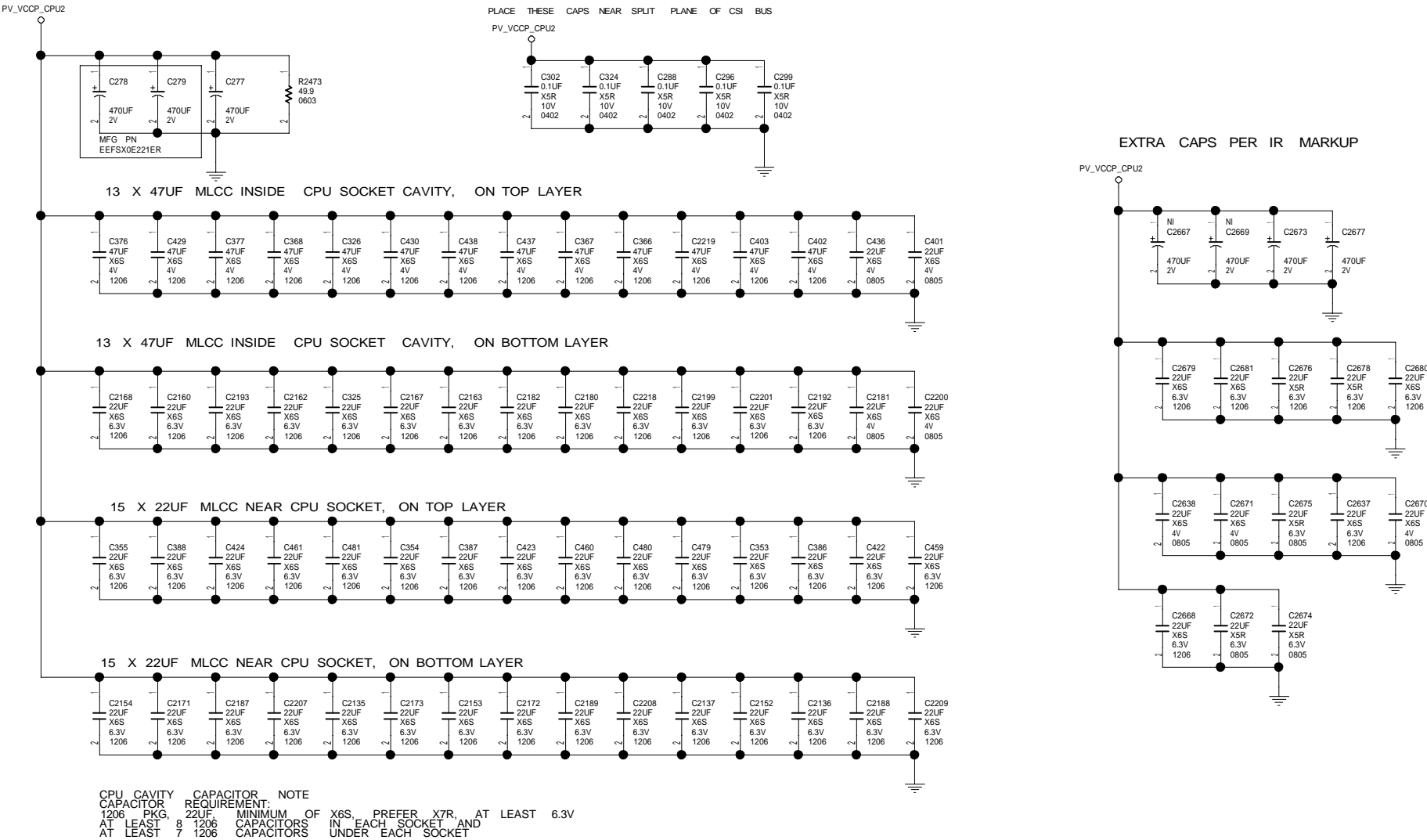
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3

2

1

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CPU2 VRD (110A) - DECOUPLING

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 71	OF 247	

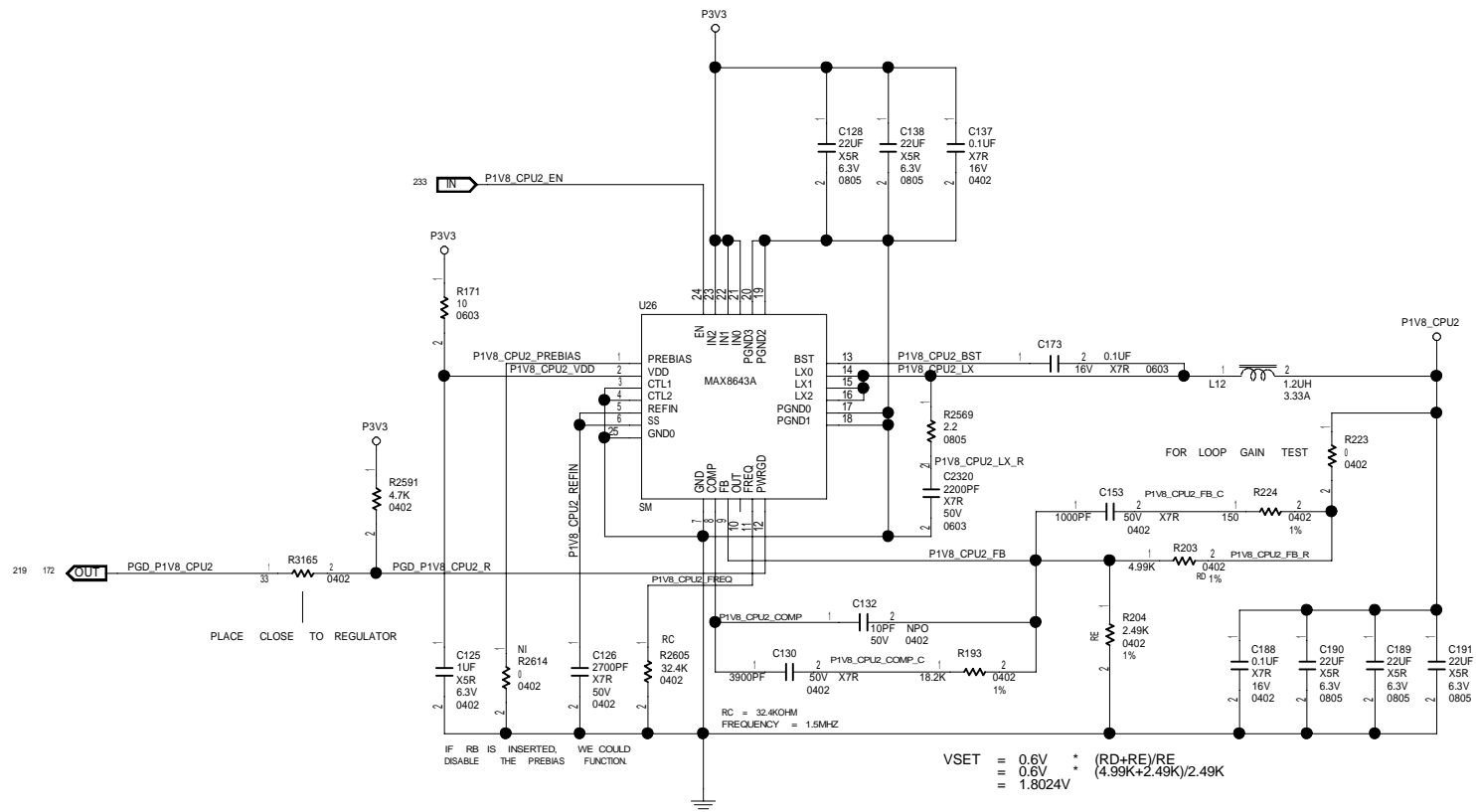
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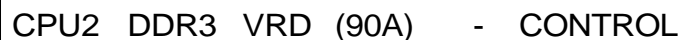
FOXCONN CONFIDENTIAL



1.8V CPU2 PLL (1.5A)

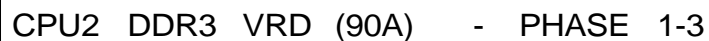
Tue Jan 27 14:44:31 2009

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:		DO NOT SCALE DRAWING		SHEET 72 OF 247



Foxconn eMS Inc.
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Houston, Texas 77064
(281) 668-1668

SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 73 OF 247

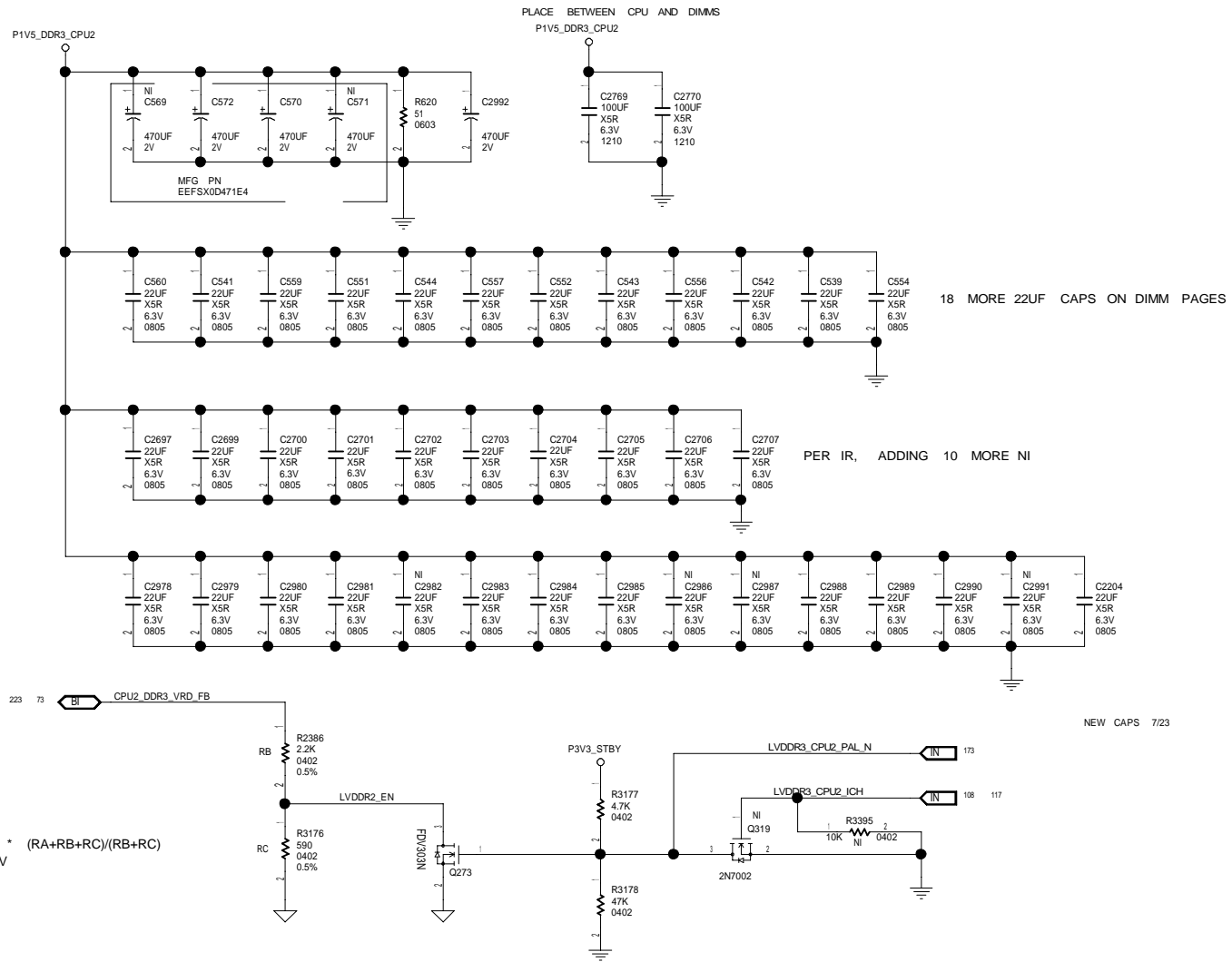


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REV
B

SHEET 74 OF 247

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Tue Jan 27 14:44:32 2009

CPU2 DDR3 VDD (90A) - DECOUPLING

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
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BDOCUMENT NUMBER
AMANDAREV
B

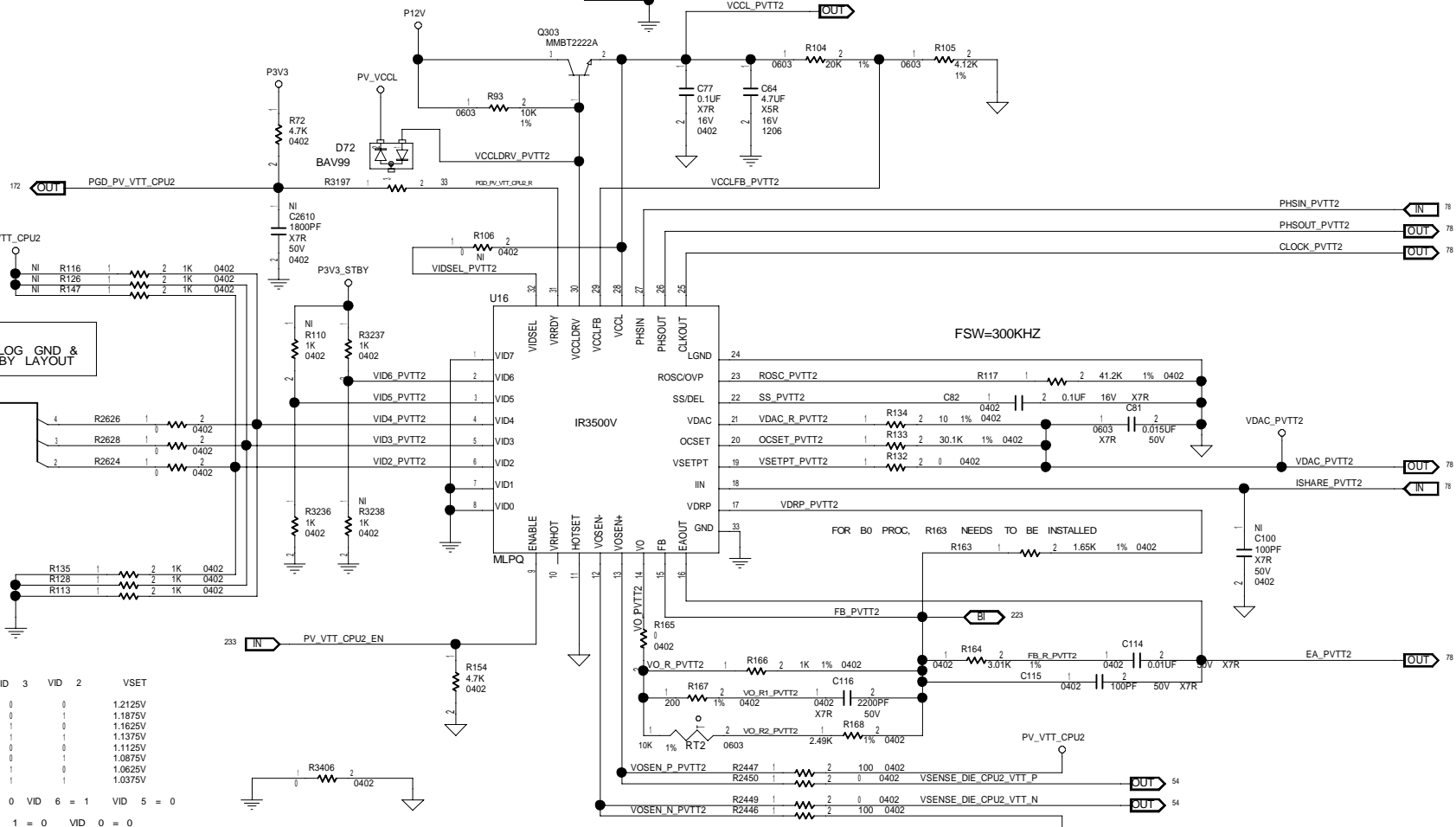
SCALE:

DO NOT SCALE DRAWING

SHEET 75 OF 247

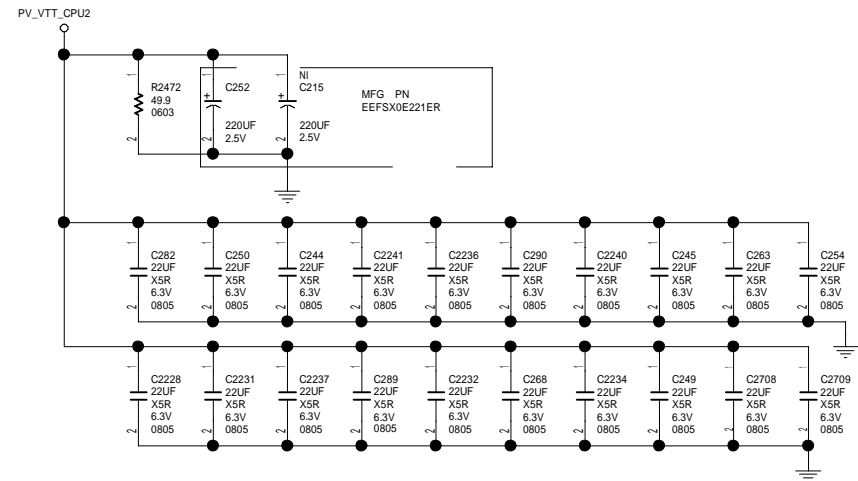
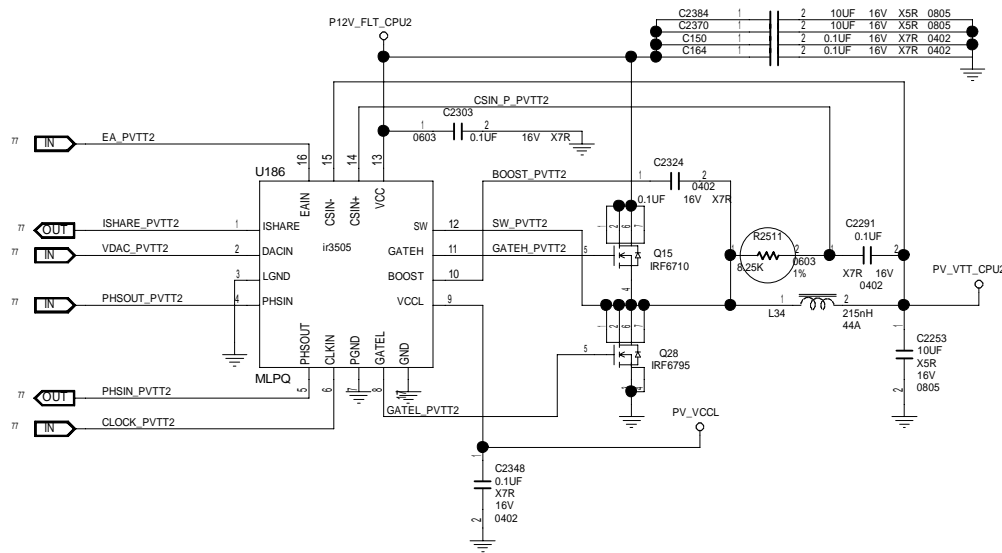


INTEL COMMUNICATED IN THE WW27/07 TYLERSBURG-EP PLATFORM SNAPSHOT
THAT VTT VID AND ACTIVE LOADLINE ARE REQUIRED STARTING WITH A-STEP PROCESSORS
*BASED ON POST-SILICON CHARACTERIZATION,
INTEL IS NOW REQUIRING DISABLING VTT ACTIVE LOADLINE ON A-STEP PROCESSORS
*ACTIVE LOADLINE CAUSING QPI BUFFER INSTABILITY ON A-STEP
INTEL HAS MADE MODIFICATIONS TO BO-STEP WHICH PREVENT THESE ISSUES, SO ACTIVE LOADLINE CAN BE ENABLED
*VID AND ACTIVE LOADLINE STILL REQUIRED FOR E-STEP PROCESSORS
*PLATFORMS WITH A-STEP PROCESSORS SHOULD CONTINUE TO STRAP VTT VID
TO 1.20V (WITH 20mV OFFSET) BY HAVING PULL DOWN RESISTORS ON VID[4:2]



SCALE:	DO NOT SCALE DRAWING	SHEET 77 OF 247
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CPU2 VTT (18A) - PHASE

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

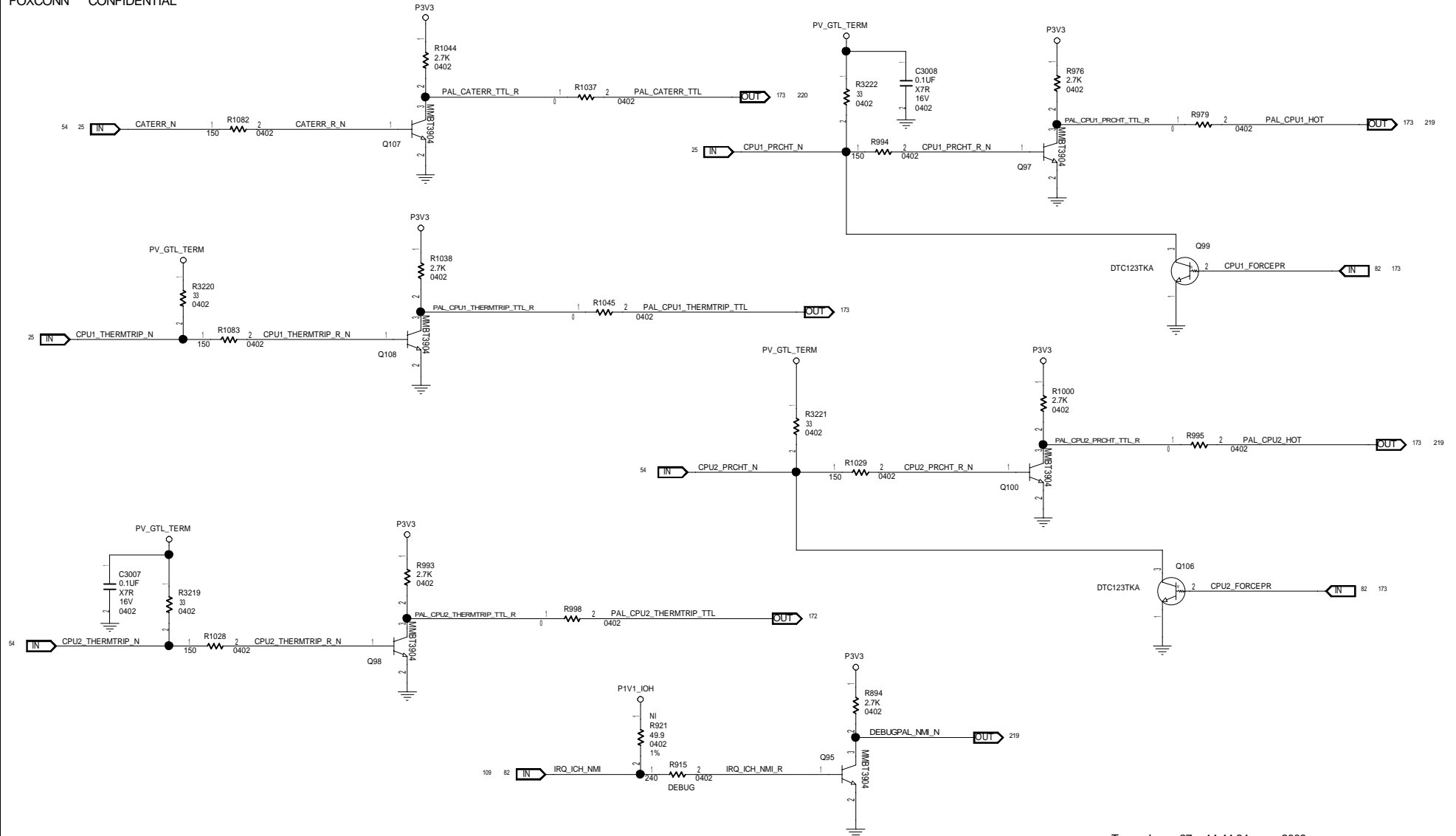
SCALE:

DO NOT SCALE DRAWING

SHEET 78 OF 247

Tue Jan 27 14:44:34 2009

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GTL-TTL TRANSLATION

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

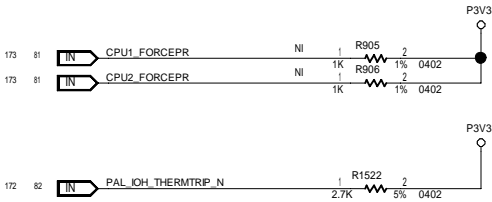
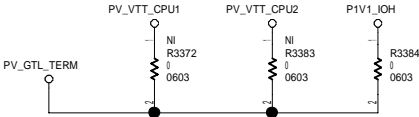
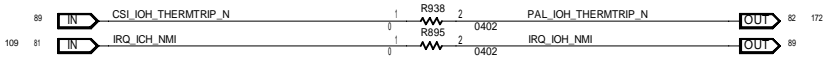
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SHEET 81 OF 247

Tue Jan 27 14:44:34 2009

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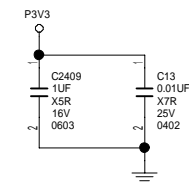


CPU SIDEBAND

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:		DO NOT SCALE DRAWING		SHEET 82 OF 247

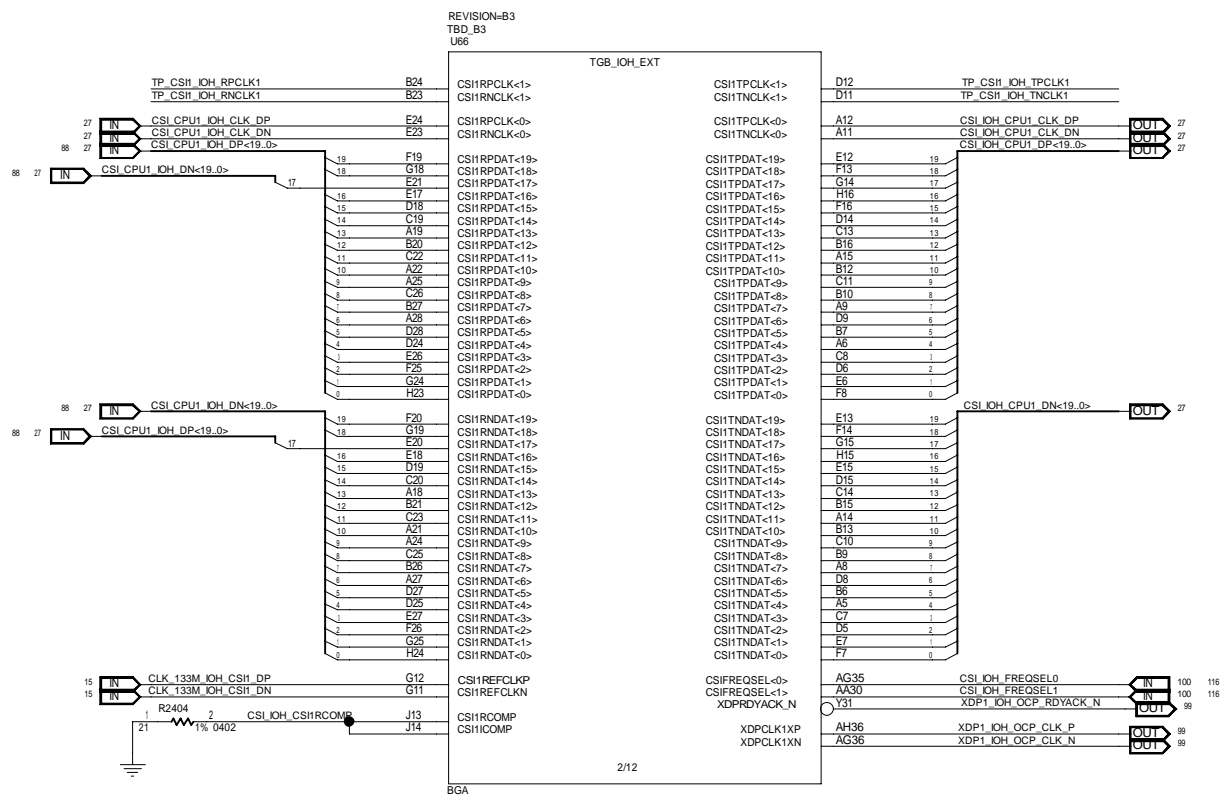
Tue Jan 27 14:44:35 2009





SCALE:	DO NOT SCALE DRAWING	SHEET 84 OF 247
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IOH CSI1 (CPU1)

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
B

DOCUMENT NUMBER	AMANDA
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REV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 88 OF 247





SHEET 90 OF 247

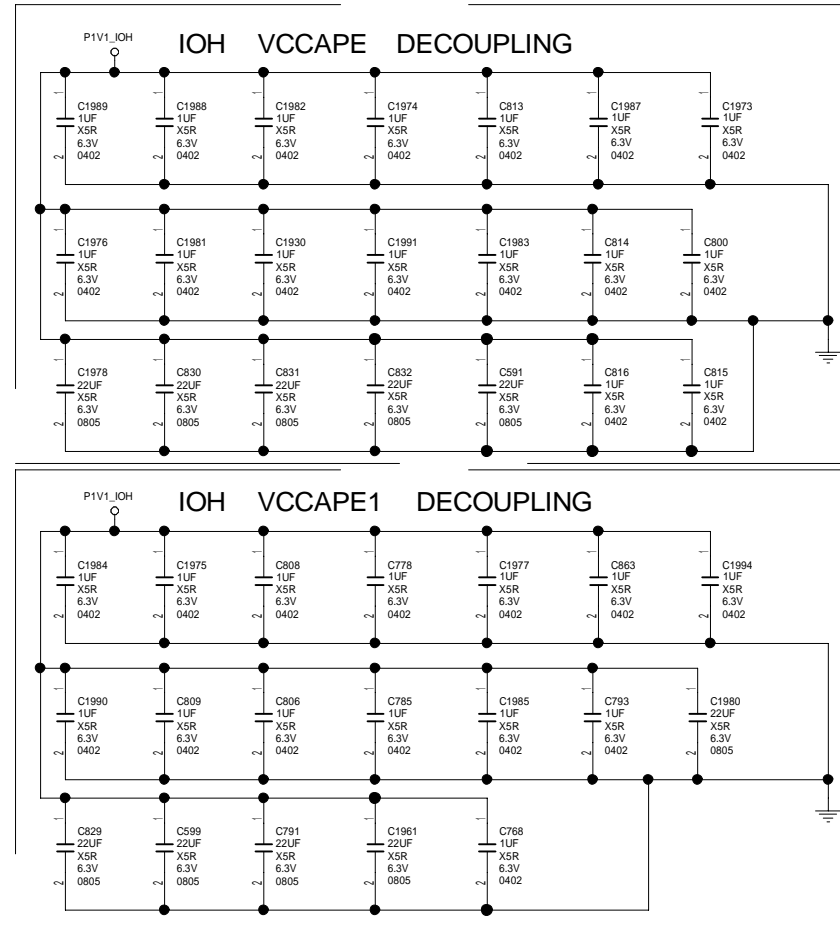
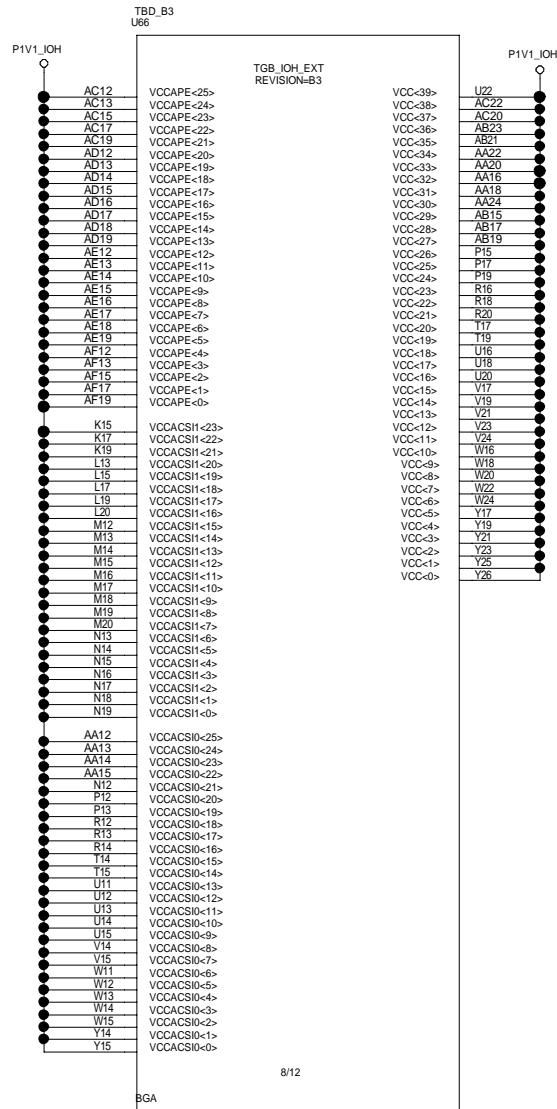


Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

REV
B

SHEET 91 OF 247

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Tue Jan 27 14:44:41 2009

IOH POWER 1 OF 2

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

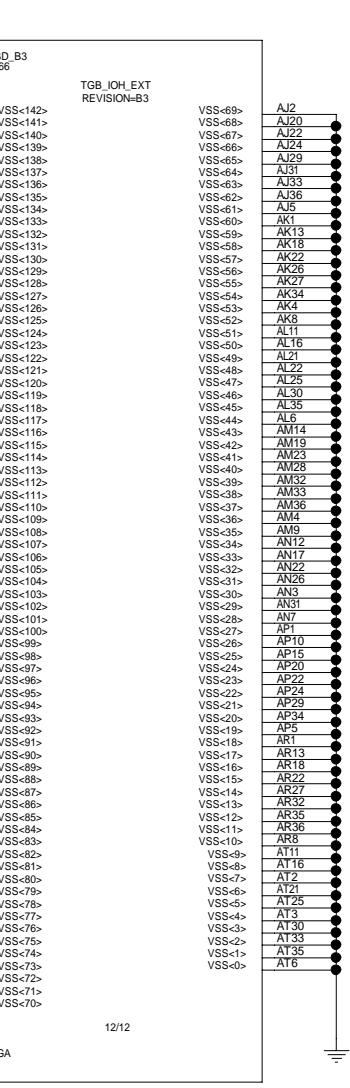
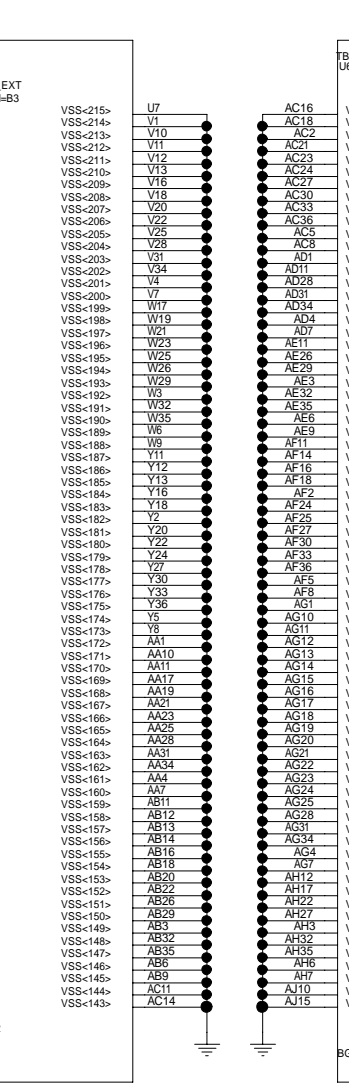
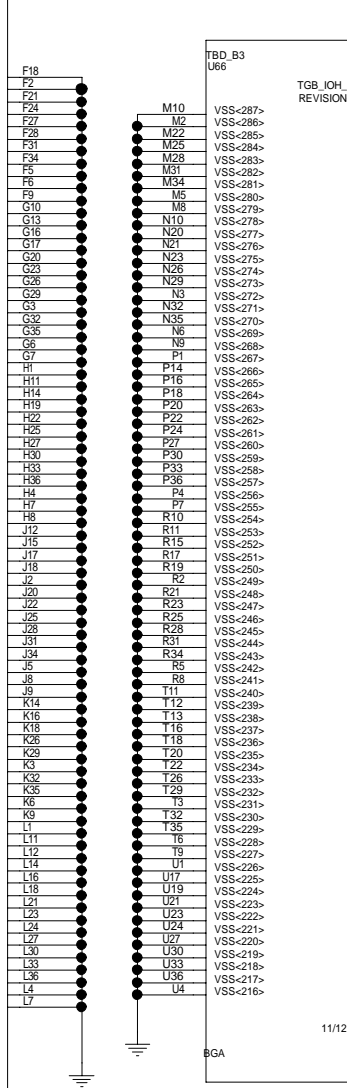
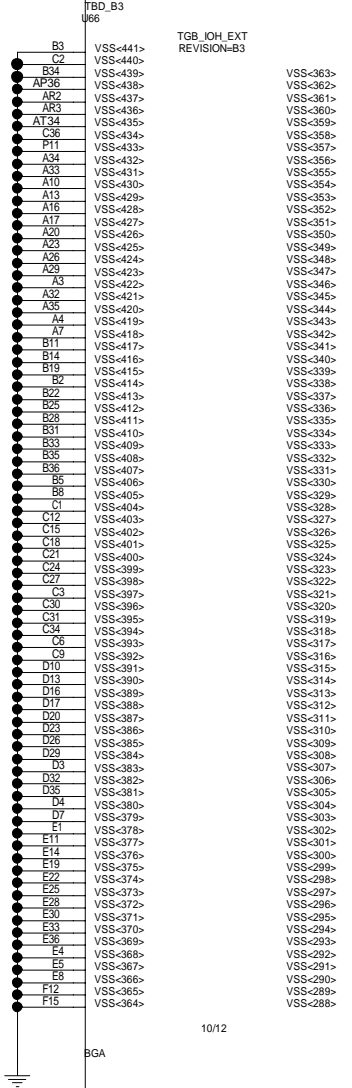
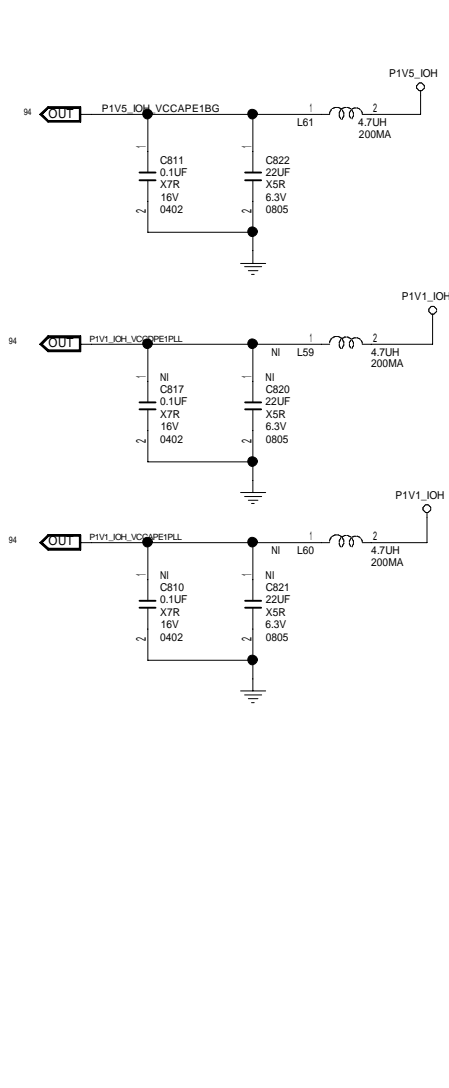
SHEET 93 OF 247



IOH POWER 2 OF 2

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA		REV B
		SCALE:	DO NOT SCALE DRAWING		SHEET 94 OF 247

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IOH FILTERS AND VSS

DEPARTMENT
R&D

Foxconn eMS Inc.

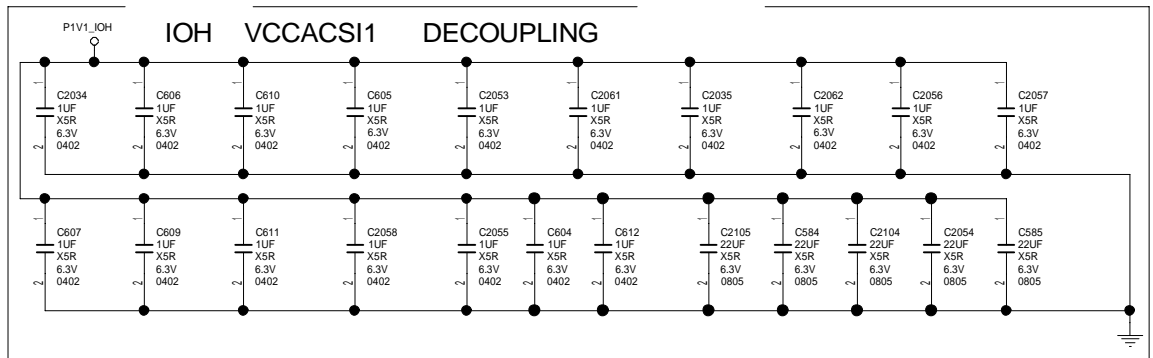
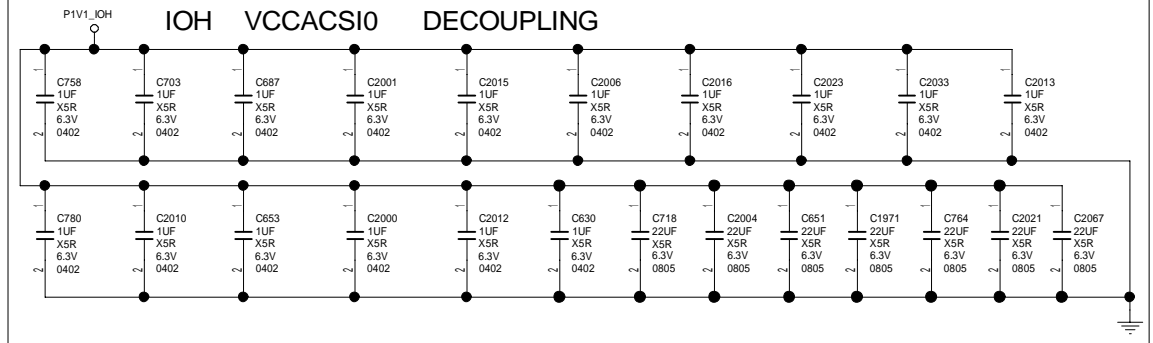
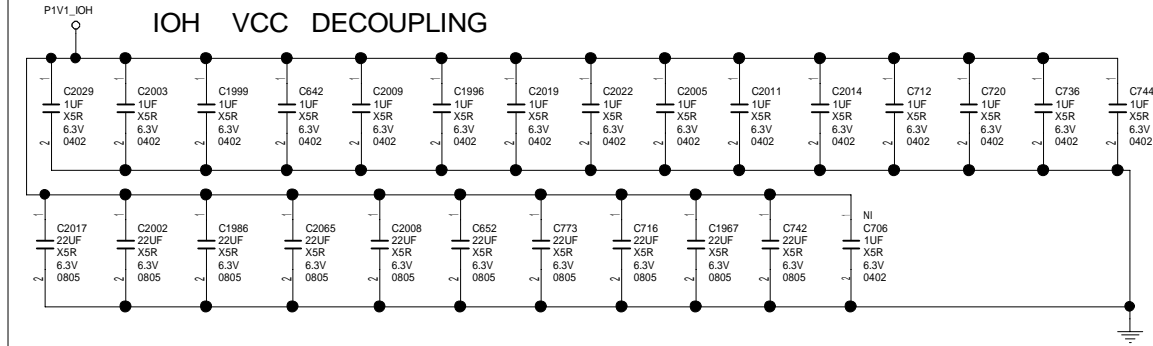
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

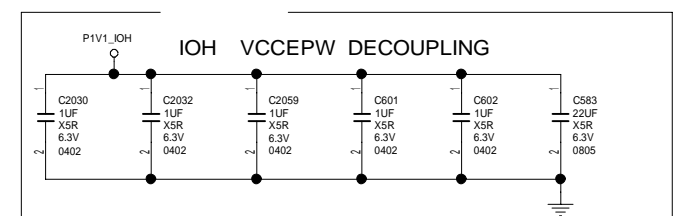
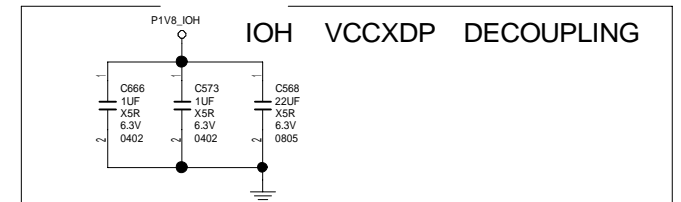
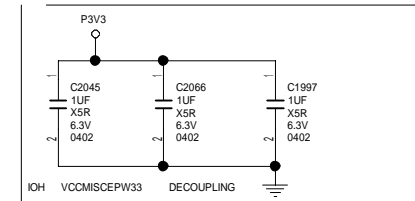
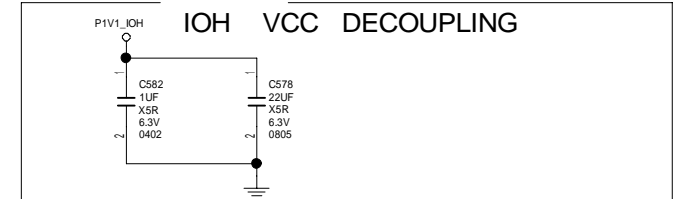
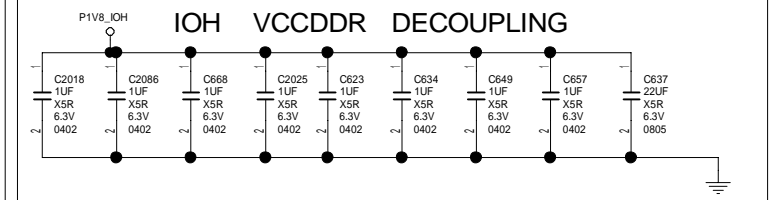
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SHEET 95 OF 247

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IOH DECOUPLING



Tue Jan 27 14:44:43 2009

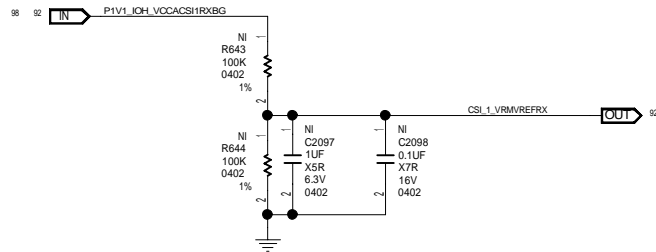
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
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AMANDAREV
B

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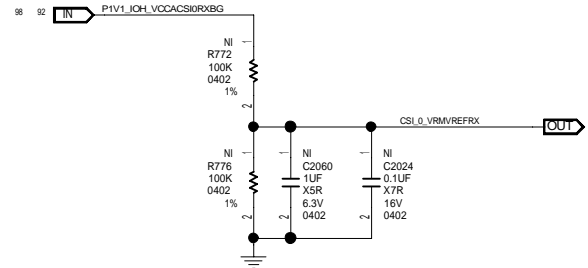
DO NOT SCALE DRAWING

SHEET 96 OF 247

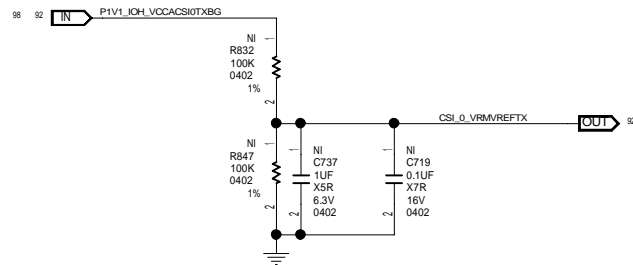
FOXCONN CONFIDENTIAL



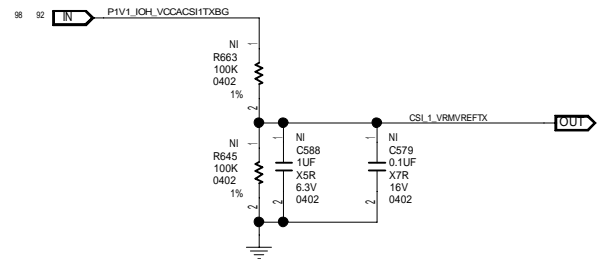
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PLACE CLOSE TO THE
REFERENCE DIVIDER



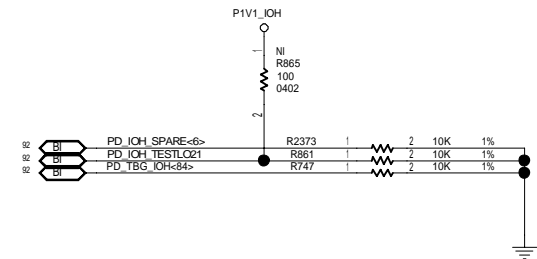
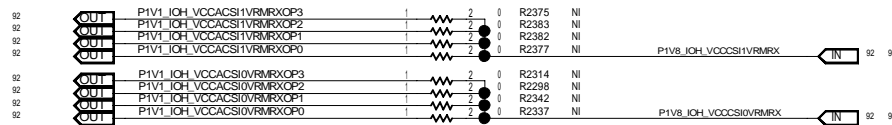
CAD NOTE:
PLACE CLOSE TO THE
REFERENCE DIVIDER



PLACE CLOSE TO THE
REFERENCE DIVIDER



CAD NOTE:
PLACE CLOSE TO THE
REFERENCE DIVIDER



IOH DBG CKTS

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R&D

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8807 Fallbrook Drive
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(281) 668-1668

SIZE
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DOCUMENT NUMBER
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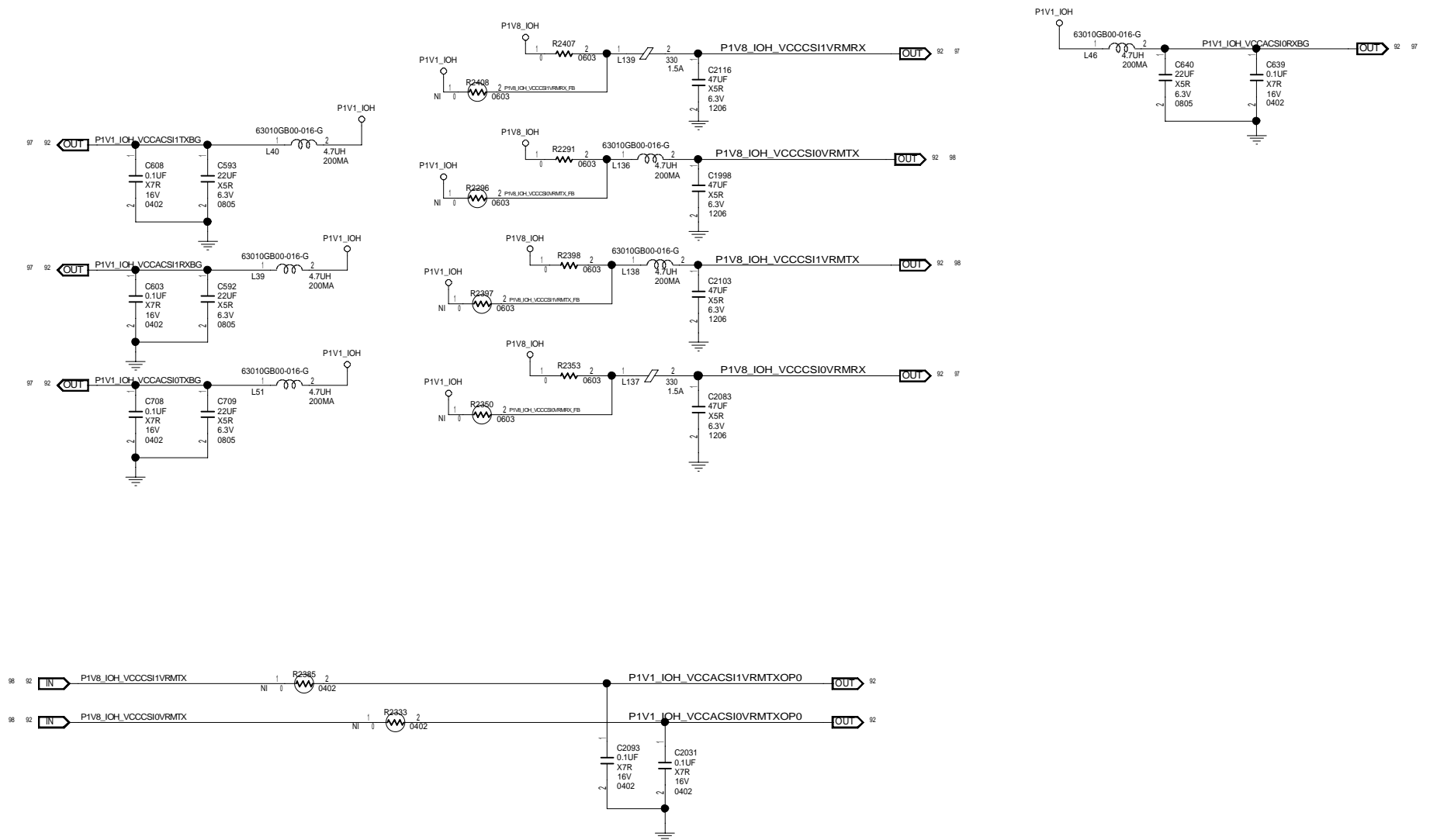
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SHEET 97 OF 247

Tue Jan 27 14:44:43 2009

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IOH TEST FILTERS

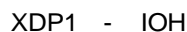
Tue Jan 27 14:44:44 2009

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

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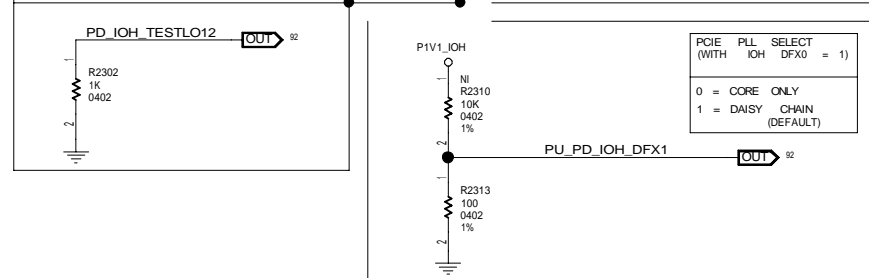
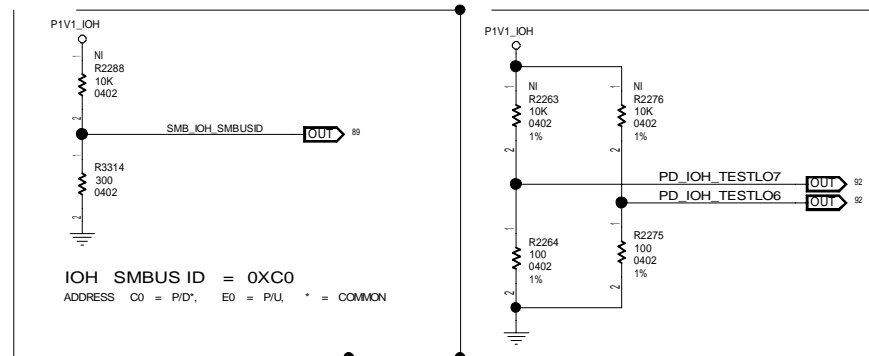
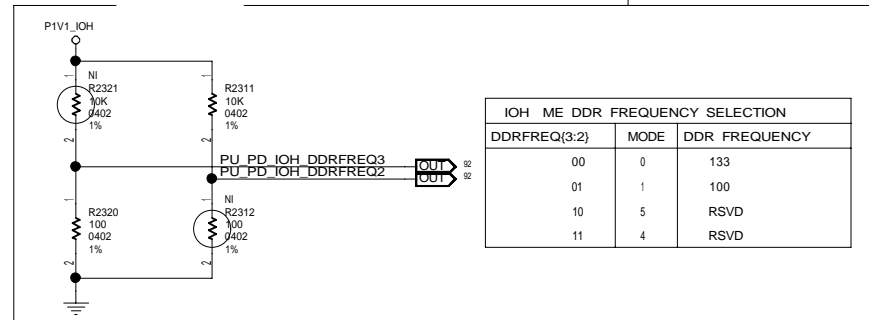
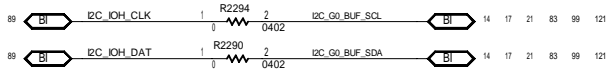
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SHEET 98 OF 247



SCALE:	DO NOT SCALE DRAWING	SHEET 99 OF 247
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IOH STRAPPIING

DEPARTMENT
R&D

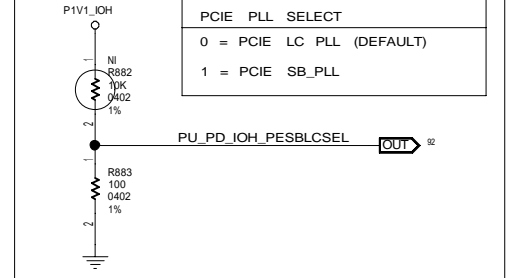
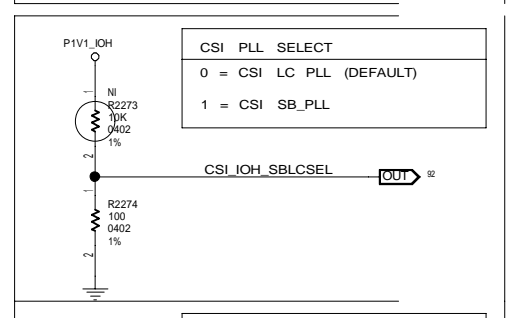
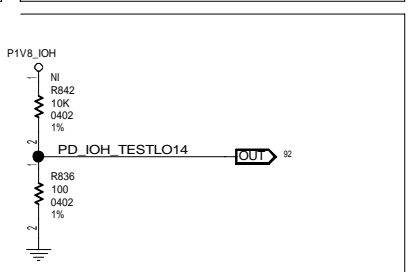
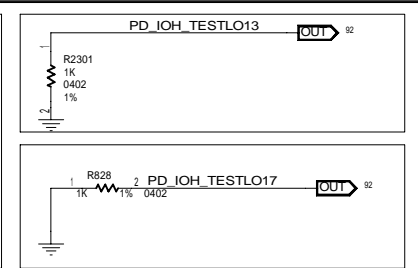
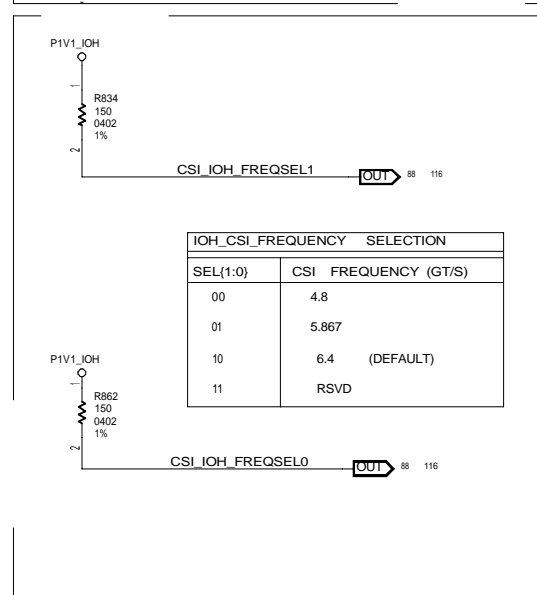
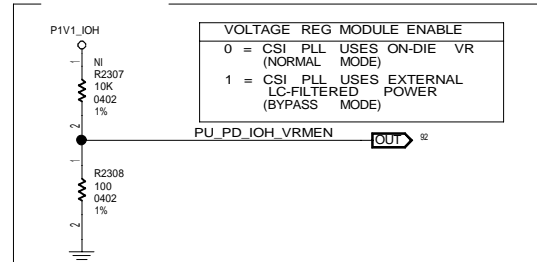
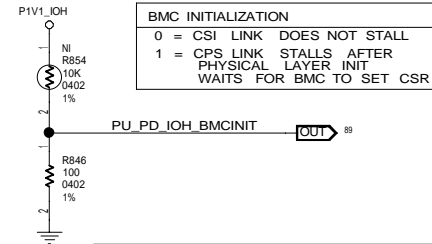
Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
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SCALE:

DO NOT SCALE DRAWING

SHEET 100 OF 247



Tue Jan 27 14:44:45 2009

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R&D

	SIZE
	B

REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 101 OF 247
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89	IN	ESI_IQH_IQH_C_DP<3>	C680	1	2	0.1UF	0402	ESI_IQH_IQH_DP<3>	OUT	108	196
89	IN	ESI_IQH_IQH_C_DP<2>	C685	1	2	0.1UF	0402	ESI_IQH_IQH_DP<2>	OUT	108	196
89	IN	ESI_IQH_IQH_C_DP<1>	C686	1	2	0.1UF	0402	ESI_IQH_IQH_DP<1>	OUT	108	196
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89	IN	ESI_IQH_IQH_C_DN<3>	C679	1	2	0.1UF	0402	ESI_IQH_IQH_DN<3>	OUT	108	196
89	IN	ESI_IQH_IQH_C_DN<2>	C681	1	2	0.1UF	0402	ESI_IQH_IQH_DN<2>	OUT	108	196
89	IN	ESI_IQH_IQH_C_DN<1>	C682	1	2	0.1UF	0402	ESI_IQH_IQH_DN<1>	OUT	108	196
89	IN	ESI_IQH_IQH_C_DN<0>	C683	1	2	0.1UF	0402	ESI_IQH_IQH_DN<0>	OUT	108	196

ESI TX SERIES CAPS
PLACE IOH TRANSMIT CAPACITORS NEAR IOH

PLACE	IOH	TRANSMIT	CAPACITORS	NEAR IOH
91	IN	PE6_IQH_TX_C_DP<3.0>	3 C900 1 2 0.1UF 0402 1	PE6_IQH_TX_DP<3.0> OUT 196
			2 16V X7R 0.1UF 0402 2	
			1 16V X7R 0.1UF 0402 1	
91	IN	PE6_IQH_TX_C_DN<3.0>	0 C937 1 2 0.1UF 0402 0	PE6_IQH_TX_DN<3.0> OUT 196
			3 C904 1 2 0.1UF 0402 1	
			2 C912 1 2 0.1UF 0402 2	
			1 C925 1 2 0.1UF 0402 1	
			0 C934 1 2 0.1UF 0402 0	
91	IN	PE5_IQH_TX_C_DP<3.0>	3 C844 1 2 0.1UF 0402 1	PE5_IQH_TX_DP<3.0> OUT 196
			2 C861 1 2 0.1UF 0402 2	
			1 C868 1 2 0.1UF 0402 1	
91	IN	PE5_IQH_TX_C_DN<3.0>	0 C877 1 2 0.1UF 0402 0	PE5_IQH_TX_DN<3.0> OUT 196
			3 C851 1 2 0.1UF 0402 1	
			2 C857 1 2 0.1UF 0402 2	
			1 C866 1 2 0.1UF 0402 1	
			0 C872 1 2 0.1UF 0402 0	
91	IN	PE4_IQH_TX_C_DP<3.0>	3 C774 1 2 0.1UF 0402 1	PE4_IQH_TX_DP<3.0> OUT 196
			2 C787 1 2 0.1UF 0402 2	
			1 C803 1 2 0.1UF 0402 1	
91	IN	PE4_IQH_TX_C_DN<3.0>	0 C827 1 2 0.1UF 0402 0	PE4_IQH_TX_DN<3.0> OUT 196
			3 C769 1 2 0.1UF 0402 1	
			2 C783 1 2 0.1UF 0402 2	
			1 C796 1 2 0.1UF 0402 1	
91	IN	PE3_IQH_TX_C_DP<3.0>	0 C825 1 2 0.1UF 0402 0	PE3_IQH_TX_DP<3.0> OUT 196
			3 C704 1 2 0.1UF 0402 1	
			2 C714 1 2 0.1UF 0402 2	
			1 C739 1 2 0.1UF 0402 1	
91	IN	PE3_IQH_TX_C_DN<3.0>	0 C762 1 2 0.1UF 0402 0	PE3_IQH_TX_DN<3.0> OUT 196
			3 C701 1 2 0.1UF 0402 1	
			2 C711 1 2 0.1UF 0402 2	
			1 C731 1 2 0.1UF 0402 1	
			0 C750 1 2 0.1UF 0402 0	

91	IN	PE1_2_IQH_PMC_C_DP<3.0>	3 C1934 1 2 0.1UF 0402 1	PE1_2_IQH_PMC_DP<3.0> OUT 151
			2 C1946 1 2 0.1UF 0402 2	
			1 C1936 1 2 0.1UF 0402 1	
91	IN	PE1_2_IQH_PMC_C_DN<3.0>	0 C1948 1 2 0.1UF 0402 0	PE1_2_IQH_PMC_DN<3.0> OUT 151
			3 C1933 1 2 0.1UF 0402 1	
			2 C1945 1 2 0.1UF 0402 2	
			1 C1935 1 2 0.1UF 0402 1	
			0 C1947 1 2 0.1UF 0402 0	
90	IN	PE7_IQH_TX_C_DP<3.0>	3 C886 1 2 0.1UF 0402 1	PE7_IQH_TX_DP<3.0> OUT 194
			2 C911 1 2 0.1UF 0402 2	
			1 C924 1 2 0.1UF 0402 1	
90	IN	PE7_IQH_TX_C_DN<3.0>	0 C933 1 2 0.1UF 0402 0	PE7_IQH_TX_DN<3.0> OUT 194
			3 C888 1 2 0.1UF 0402 1	
			2 C915 1 2 0.1UF 0402 2	
			1 C929 1 2 0.1UF 0402 1	
			0 C936 1 2 0.1UF 0402 0	
90	IN	PE8_IQH_TX_C_DP<3.0>	3 C843 1 2 0.1UF 0402 1	PE8_IQH_TX_DP<3.0> OUT 194
			2 C860 1 2 0.1UF 0402 2	
			1 C867 1 2 0.1UF 0402 1	
90	IN	PE8_IQH_TX_C_DN<3.0>	0 C878 1 2 0.1UF 0402 0	PE8_IQH_TX_DN<3.0> OUT 194
			3 C850 1 2 0.1UF 0402 1	
			2 C856 1 2 0.1UF 0402 2	
			1 C865 1 2 0.1UF 0402 1	
			0 C873 1 2 0.1UF 0402 0	
90	IN	PE9_IQH_TX_C_DP<3.0>	3 C775 1 2 0.1UF 0402 1	PE9_IQH_TX_DP<3.0> OUT 194
			2 C786 1 2 0.1UF 0402 2	
			1 C802 1 2 0.1UF 0402 1	
90	IN	PE9_IQH_TX_C_DN<3.0>	0 C826 1 2 0.1UF 0402 0	PE9_IQH_TX_DN<3.0> OUT 194
			3 C770 1 2 0.1UF 0402 1	
			2 C782 1 2 0.1UF 0402 2	
			1 C795 1 2 0.1UF 0402 1	
90	IN	PE10_IQH_TX_C_DP<3.0>	0 C824 1 2 0.1UF 0402 0	PE10_IQH_TX_DP<3.0> OUT 194
			3 C705 1 2 0.1UF 0402 1	
			2 C713 1 2 0.1UF 0402 2	
			1 C740 1 2 0.1UF 0402 1	
90	IN	PE10_IQH_TX_C_DN<3.0>	0 C763 1 2 0.1UF 0402 0	PE10_IQH_TX_DN<3.0> OUT 194
			3 C702 1 2 0.1UF 0402 1	
			2 C710 1 2 0.1UF 0402 2	
			1 C732 1 2 0.1UF 0402 1	
			0 C751 1 2 0.1UF 0402 0	

Tue Jan 27 14:44:46 2009

IOH PCIE CAPS

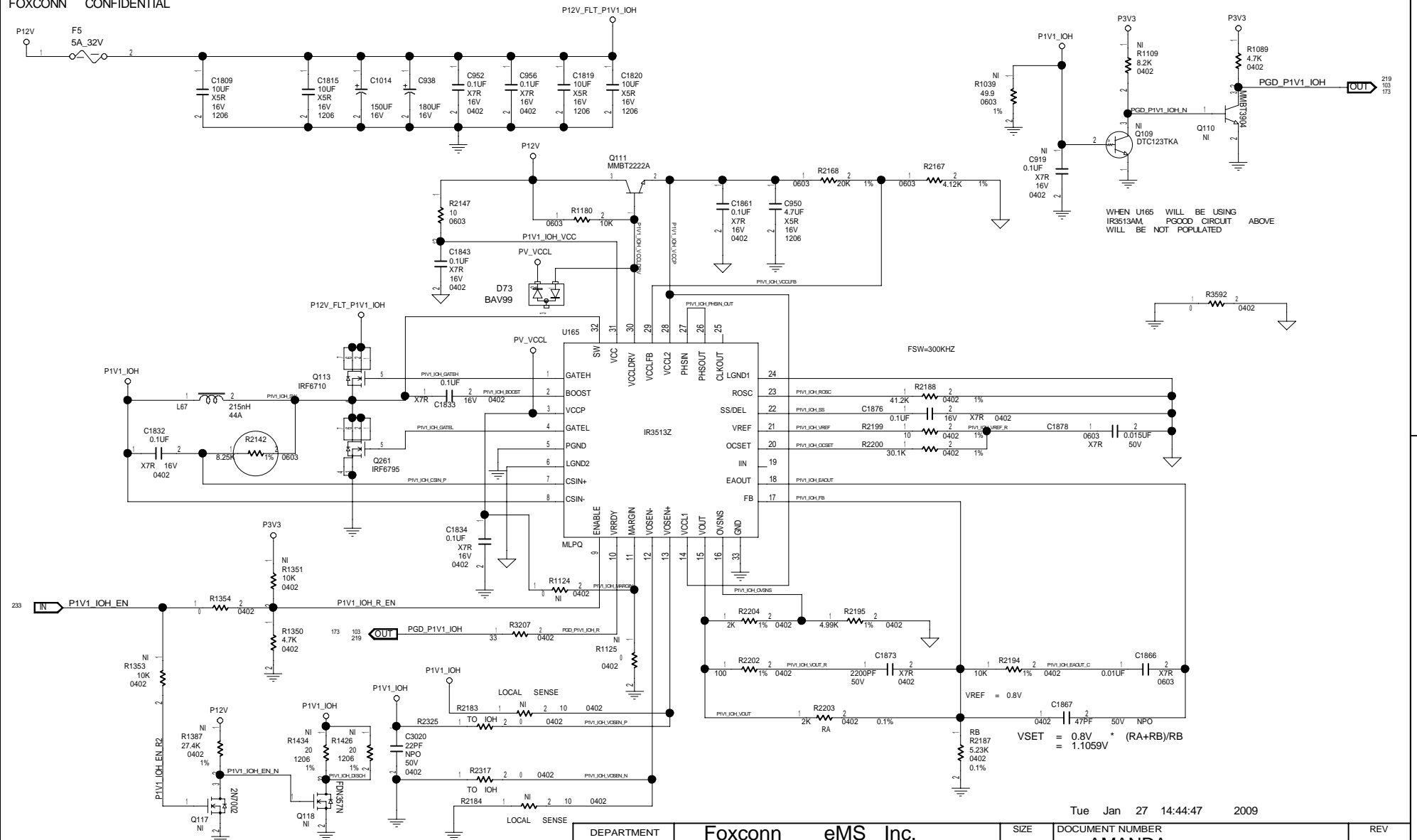
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
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SCALE:

DO NOT SCALE DRAWING

SHEET 102 OF 247

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IOH 1.1V REG (24.5A)

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R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
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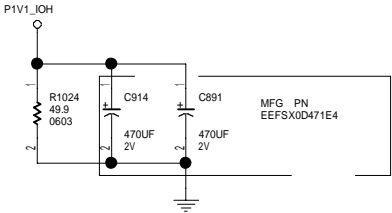
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SHEET 103 OF 247

Tue Jan 27 14:44:47 2009

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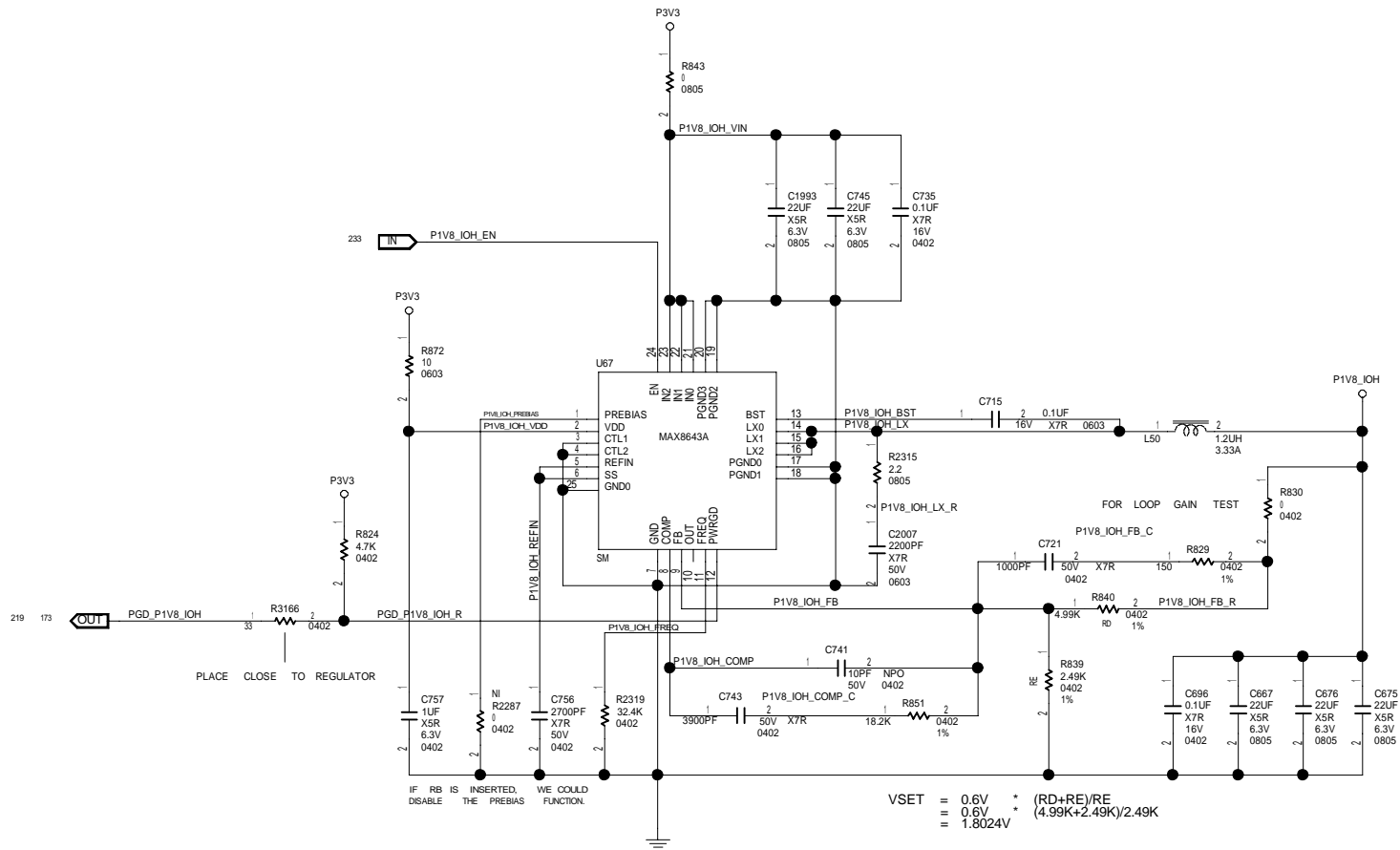


IOH 1.1V REG (24.5A)

Tue Jan 27 14:44:47 2009

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET	104	OF 247

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IOH 1.8V REG (2A)

DEPARTMENT
R&D

Foxconn eMS Inc.

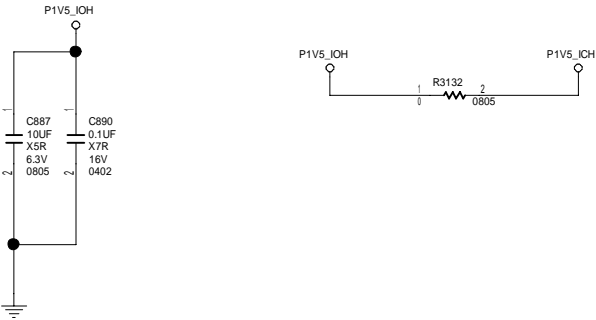
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
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SHEET 105 OF 247

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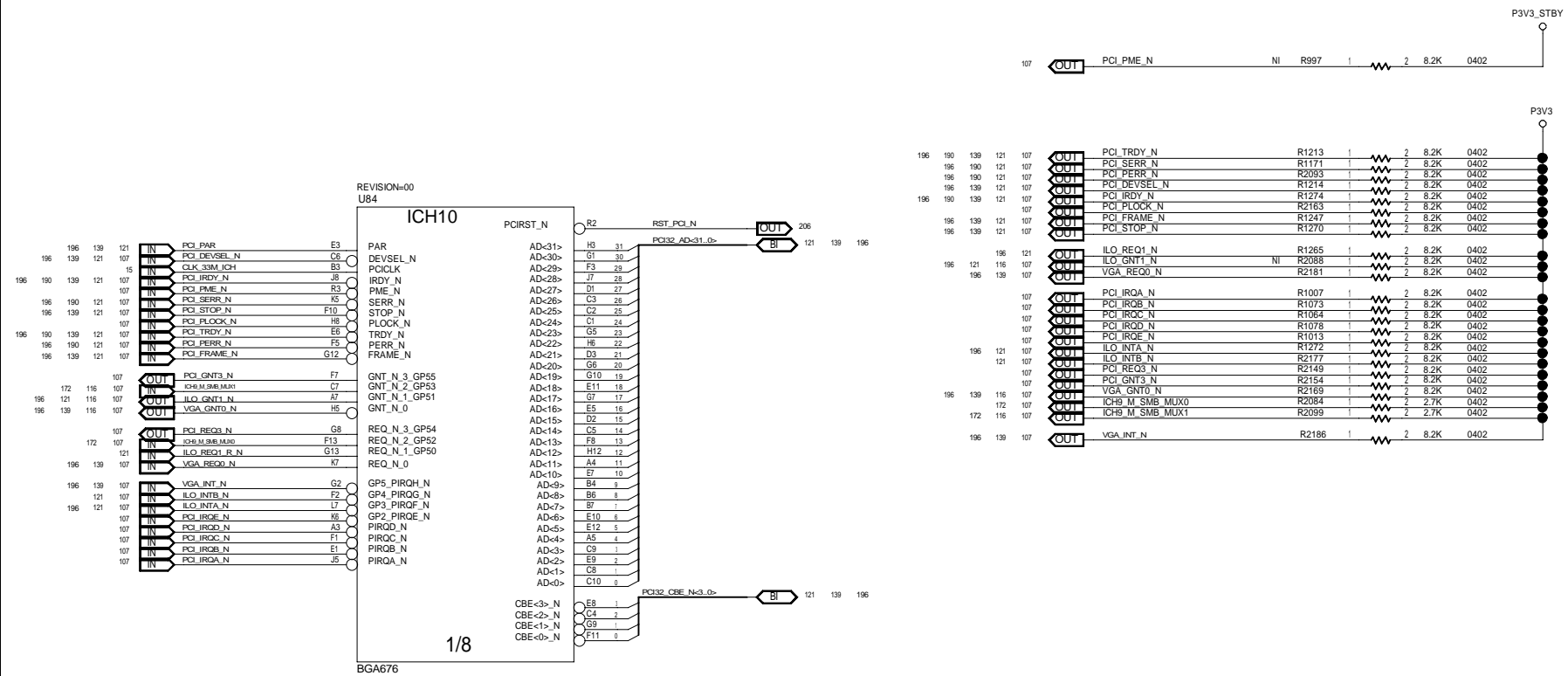


IOH 1.5V REG

Tue Jan 27 14:44:48 2009

DEPARTMENT	Foxconn eMS Inc.		SIZE	DOCUMENT NUMBER		REV
R&D	8807 Fallbrook Houston, Texas (281) 668-1668	Drive 77064	B	AMANDA		B
			SCALE:	DO NOT SCALE DRAWING	SHEET 106 OF 247	

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DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
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AMANDAREV
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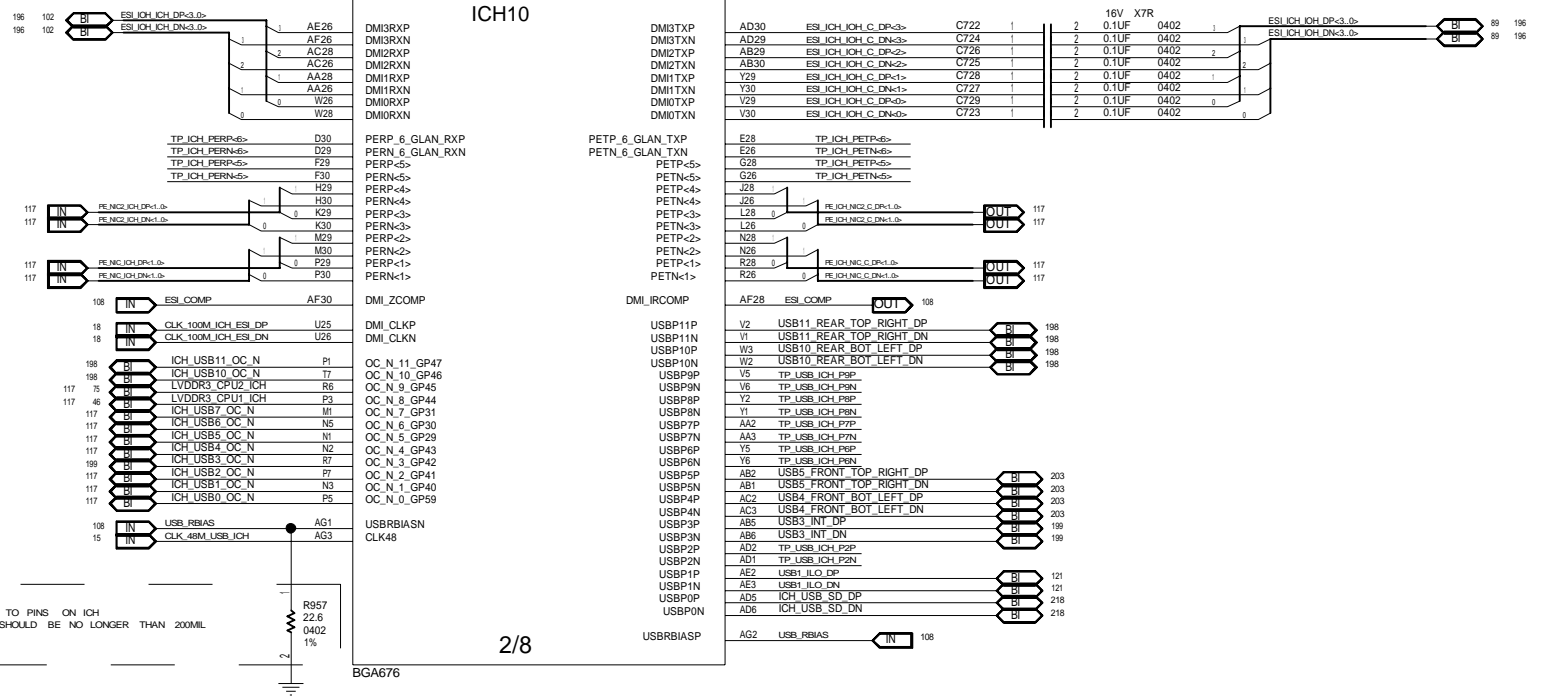
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SHEET 107 OF 247

Tue Jan 27 14:44:48 2009

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REVISION=00
U84ESI RX SERIES CAPS
PLACE ICH TRANSMIT CAPACITORS NEAR ICH

ICH10

DEPARTMENT
R&DFoxconn
8807 Fallbrook
Houston, Texas
(281) 668-1668eMS Inc.
Drive
77064SIZE
BDOCUMENT NUMBER
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SCALE:

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SHEET 108 OF 247

Tue Jan 27 14:44:48 2009

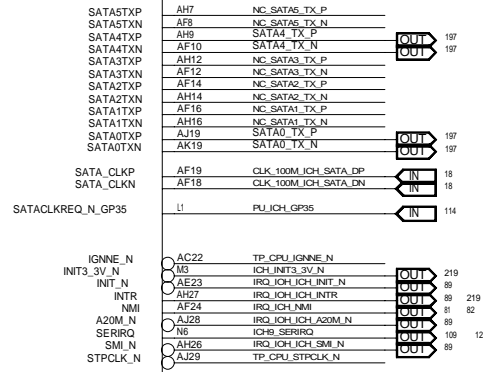
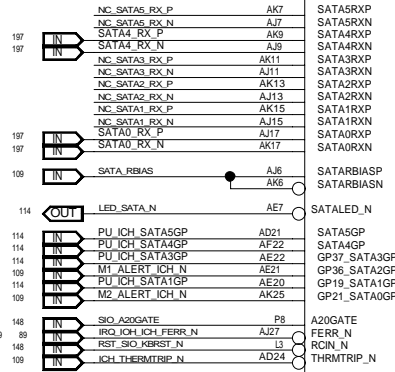
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REVISION=00
U84

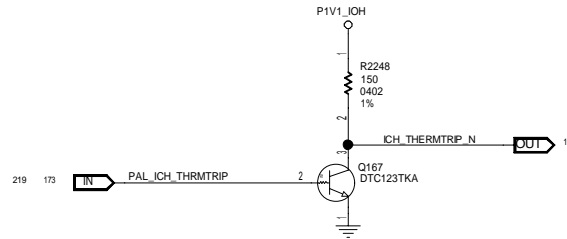
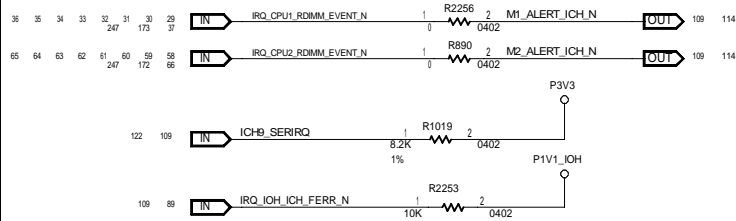
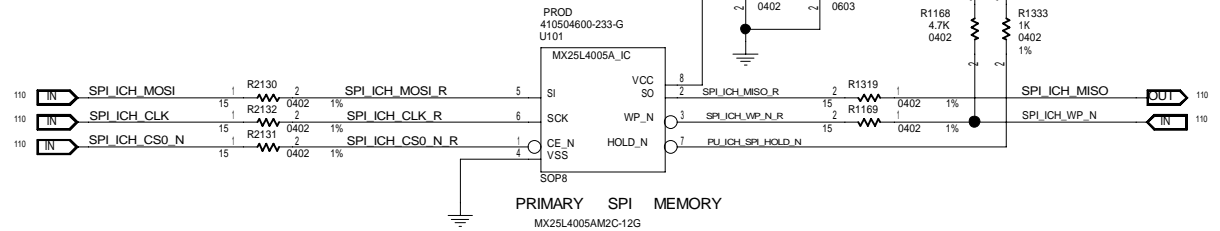
ICH10

3/8

BGA676



CAD NOTE:
PLACE COMPONENTS CLOSE TO ICH1 (WITHIN 40 MILS).
VW LENGTH TO RESISTORS NO GREATER THAN 200 MILS.



ICH10

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R&DFoxconn eMS Inc.
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U84

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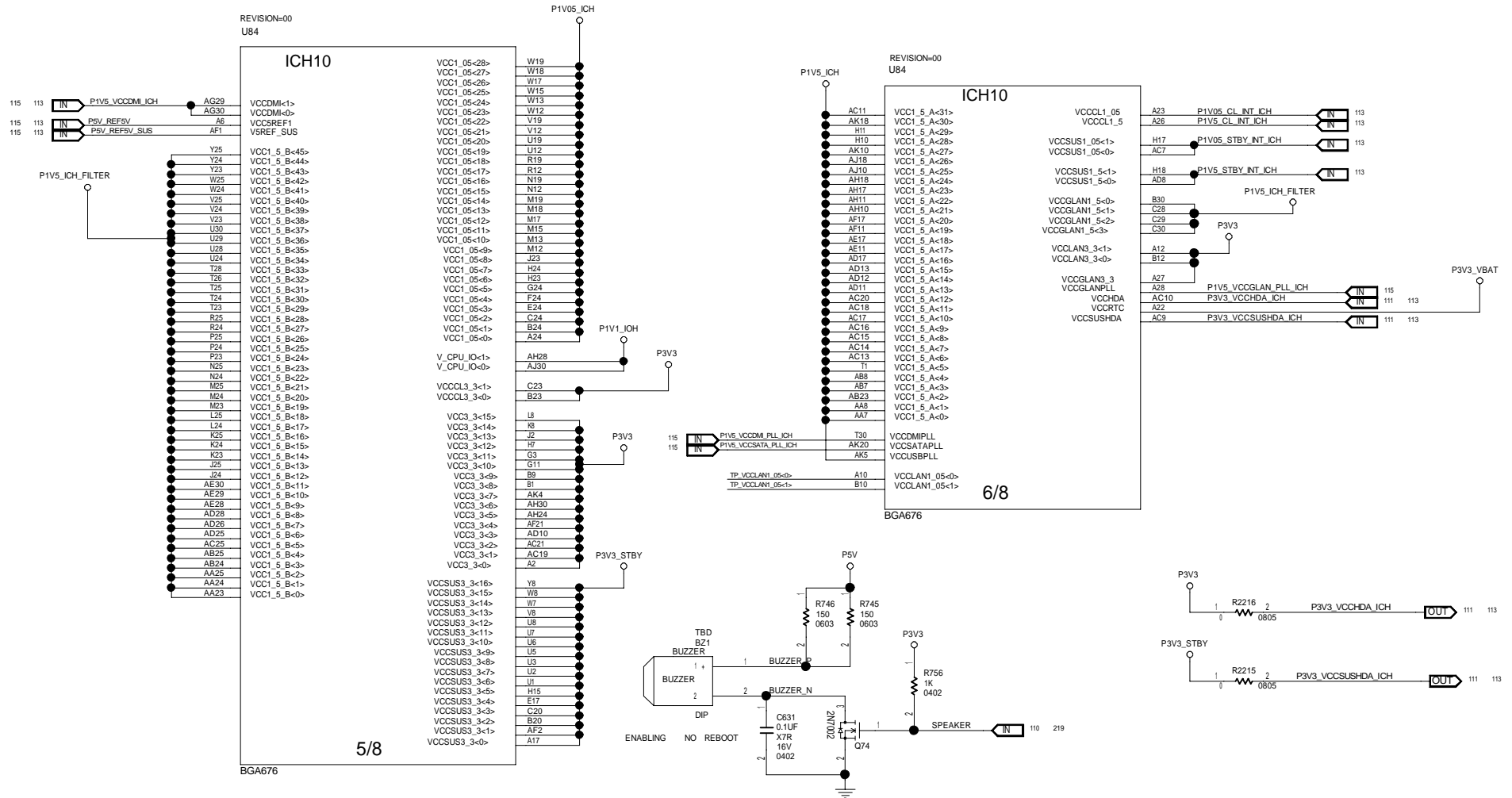
ICH10

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BGA676



ICH9

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DEPARTMENT
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8807 Fallbrook Drive
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SHEET 111 OF 247

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3

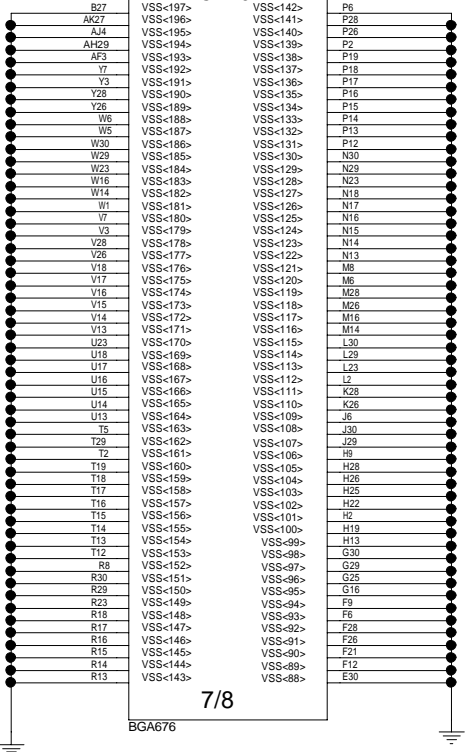
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U84

ICH10

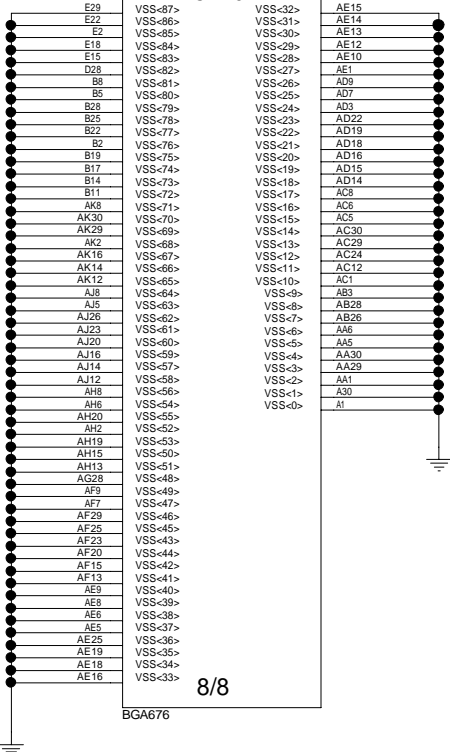


7/8

BGA676

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ICH10



8/8

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(281) 668-1668

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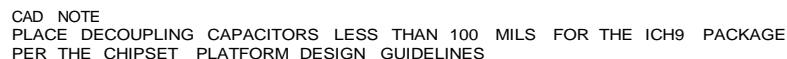
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AMANDA

REV
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SCALE:

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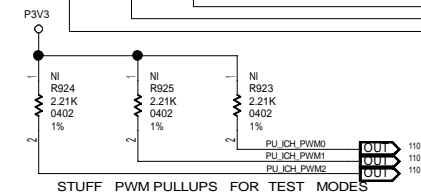
SHEET 112 OF 247

DEPARTMENT
R&D

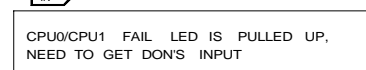
	SIZE
	B

REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 113 OF 247
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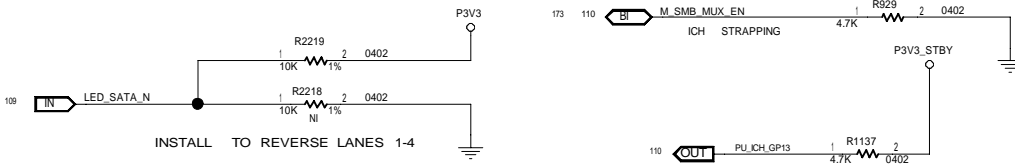
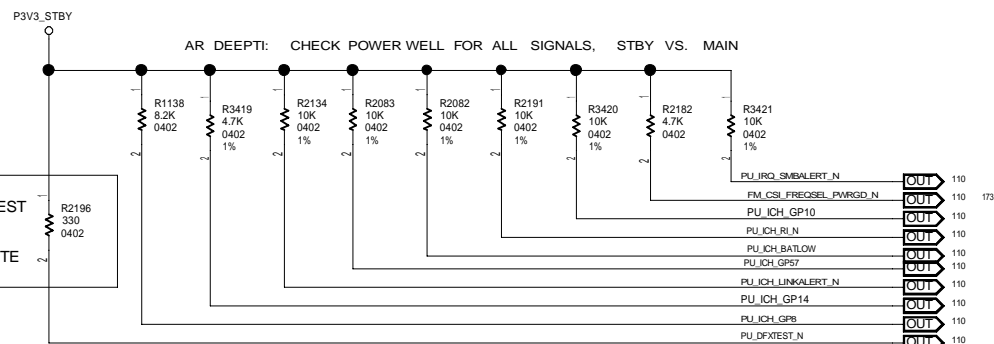


STUFF PWM PULLUPS FOR TEST MODES



P3V3
NI
C959
0.1UF
X7R
16V
2 0402

ICH	DFX	TEST
PULL-IP		SITE

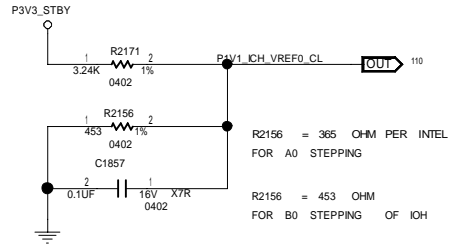


Tue Jan 27 14:44:51 2009

ICH9 TERMINATION / PULL-UPS

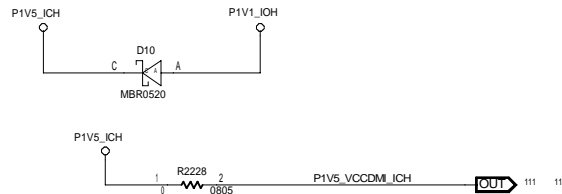
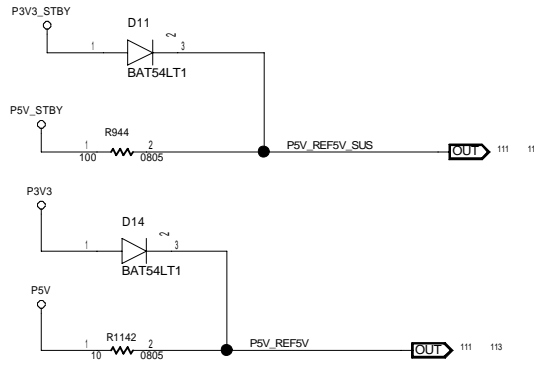
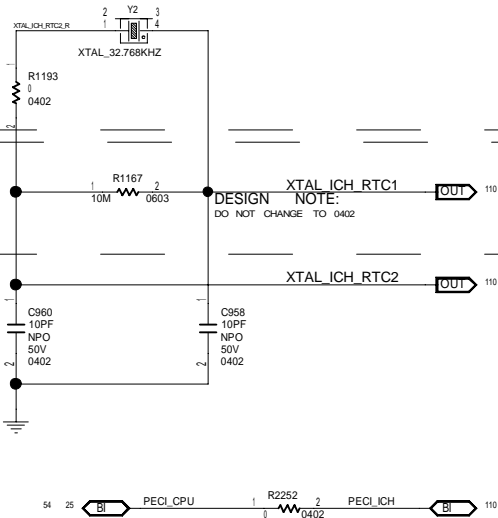
DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER		REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA		B
		SCALE:	DO NOT SCALE DRAWING	SHEET 114 OF 247	

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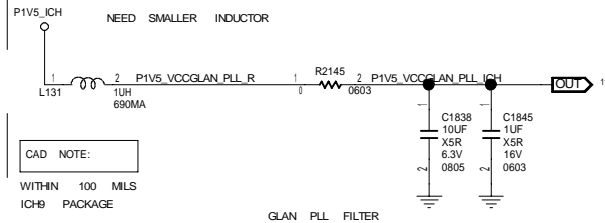


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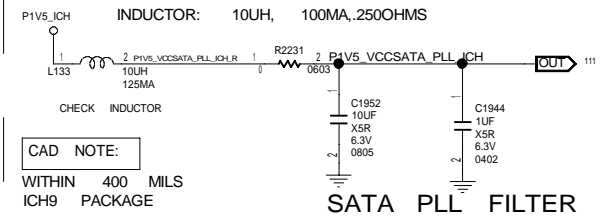
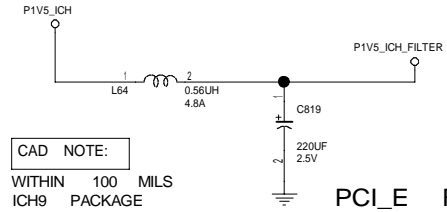
FLIP-UP XTAL HOLDER USES STANDARD XTAL
BOM NOTE:
USE MOD FILE TO ADD 107930-002 XTAL
(32.768KHZ) W/ SOCKETREFDES MINUS THE X



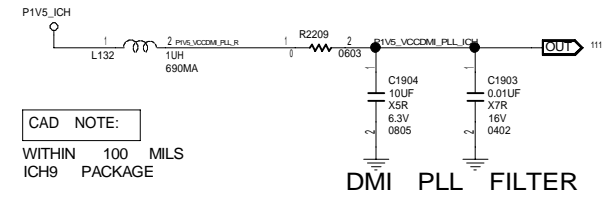
DESIGN NOTES:
ICH POWER SEQUENCING REQUIREMENTS



INDUCTOR SHOULD BE .5UH 1A .020 OHMS



NEED SMALLER INDUCTOR



Tue Jan 27 14:44:52 2009

ICH9 PLL & VREF

DEPARTMENT
R&D

Foxconn eMS Inc.

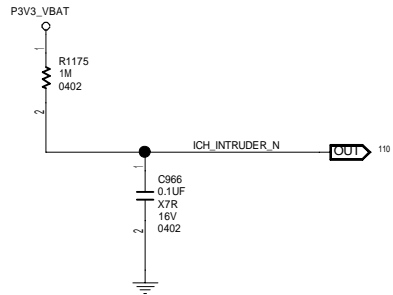
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

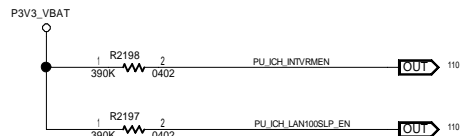
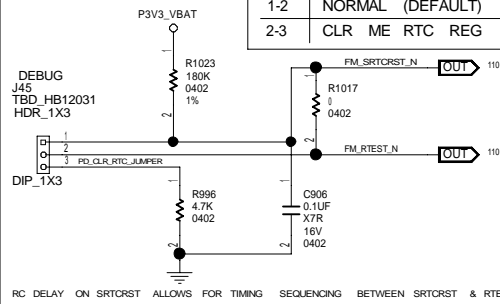
DO NOT SCALE DRAWING

SHEET 115 OF 247

FOXCONN CONFIDENTIAL



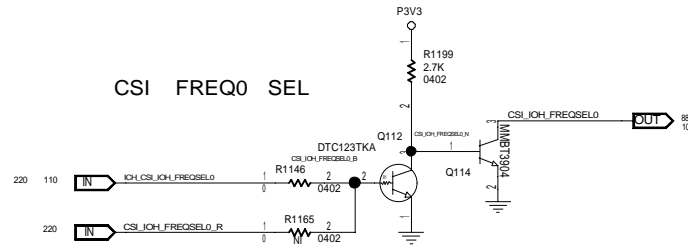
PROTECTED RTC JUMPER



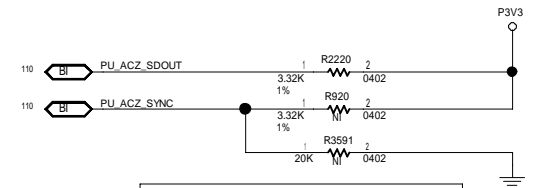
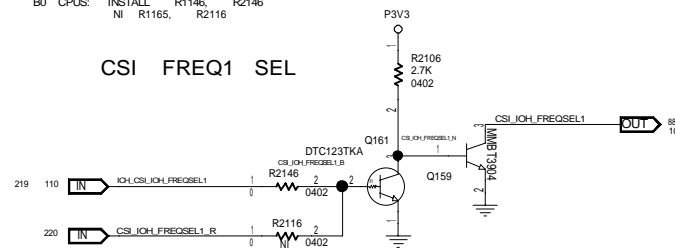
DESIGN NOTE:

INTVRMEN: ALWAYS STUFF TO ENABLE INTERNAL VRM
 LAN100SLP: ALWAYS STUFF TO ENABLE INTERNAL LAN VRM
 EXTERNAL VRM IS NOT SUPPORTED

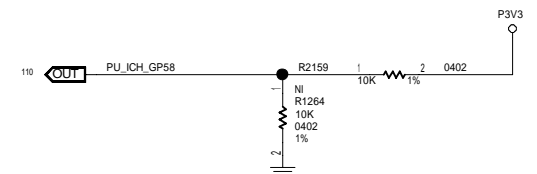
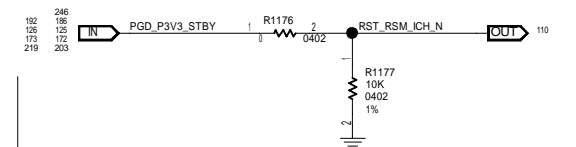
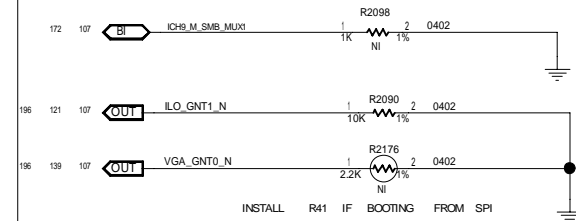
CSI_FREQ0_SEL



CSI_FREQ1_SEL



SDOUT:SYNC	CONFIG
00	FOUR X1
11	ONE X4
10	TWO X2



GP58_SPI_CS1_N_CLGPI06

STRAPPING:BOOT FROM LPC/WEAK INTERNAL PU

Tue Jan 27 14:44:53 2009

ICH9 MISC

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R&D

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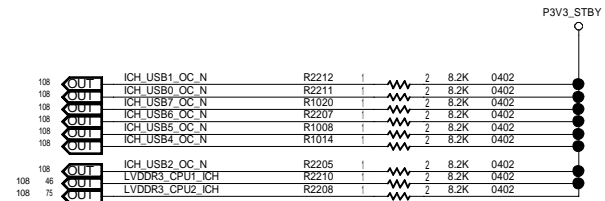
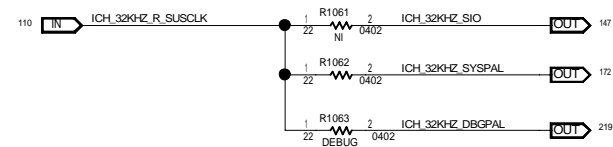
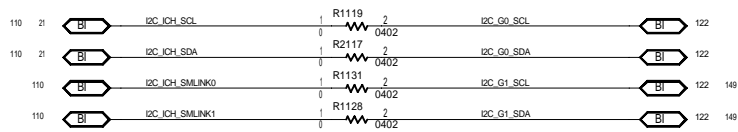
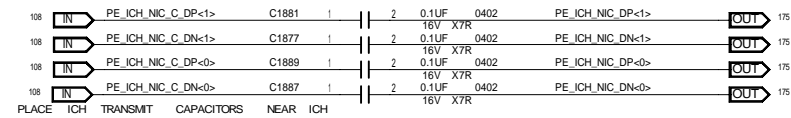
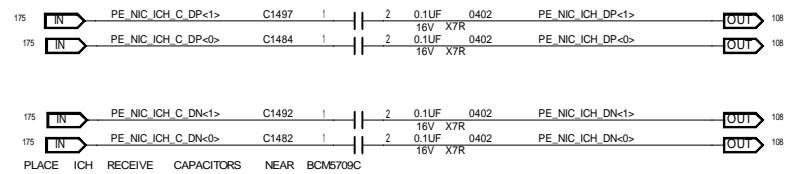
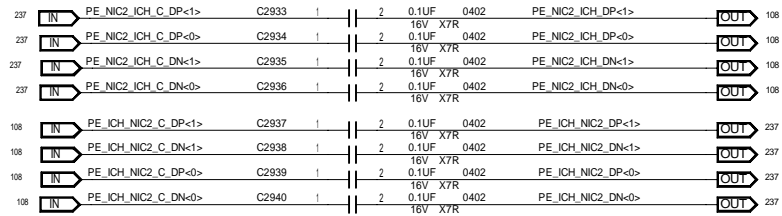
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 116 OF 247

FOXCONN CONFIDENTIAL



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ICH9 PCIE CAPS / MISC

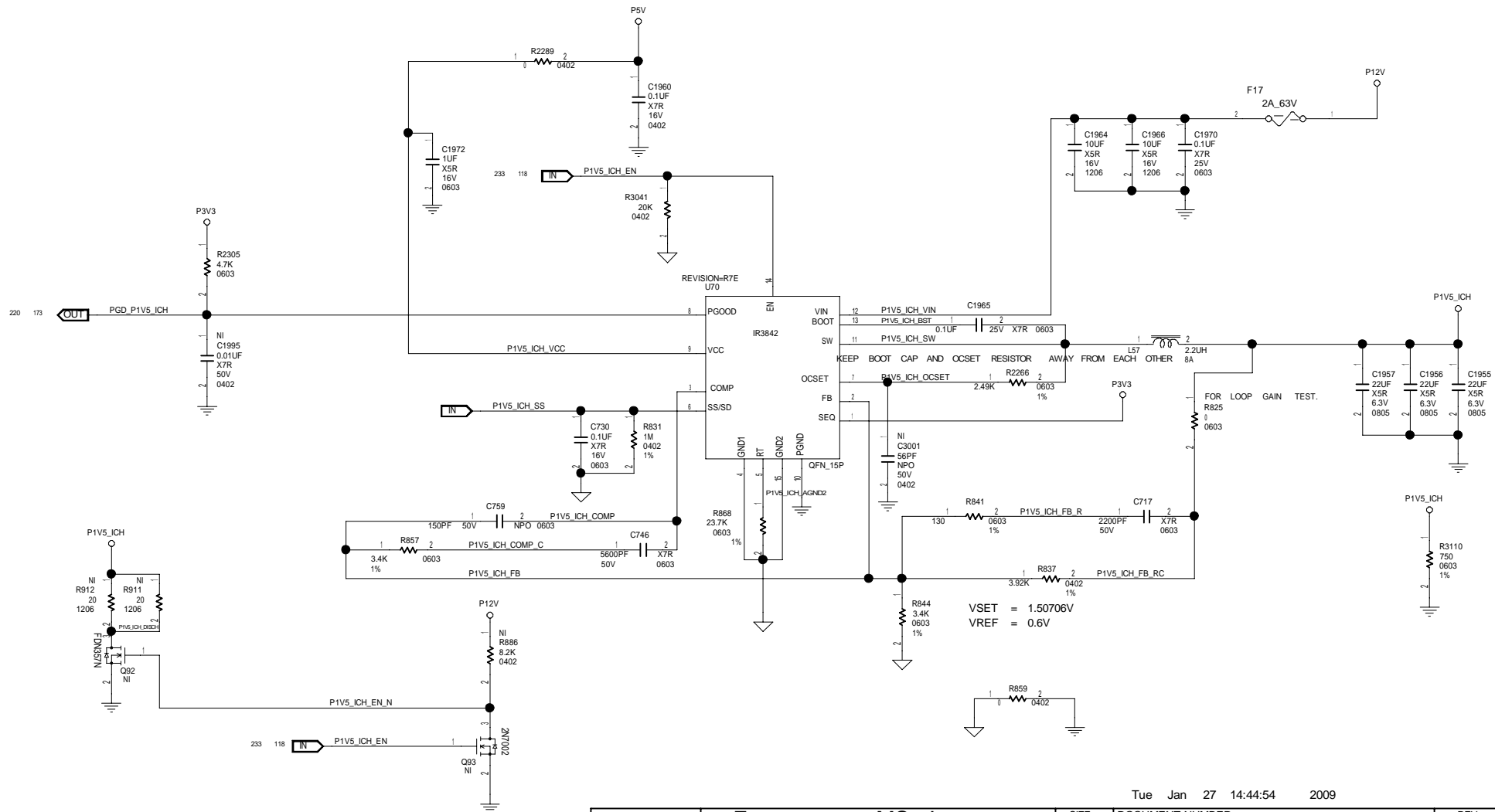
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

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SHEET 117 OF 247

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ICH9 1.5V REG (4A)

Tue Jan 27 14:44:54 2009

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 118	OF 247	

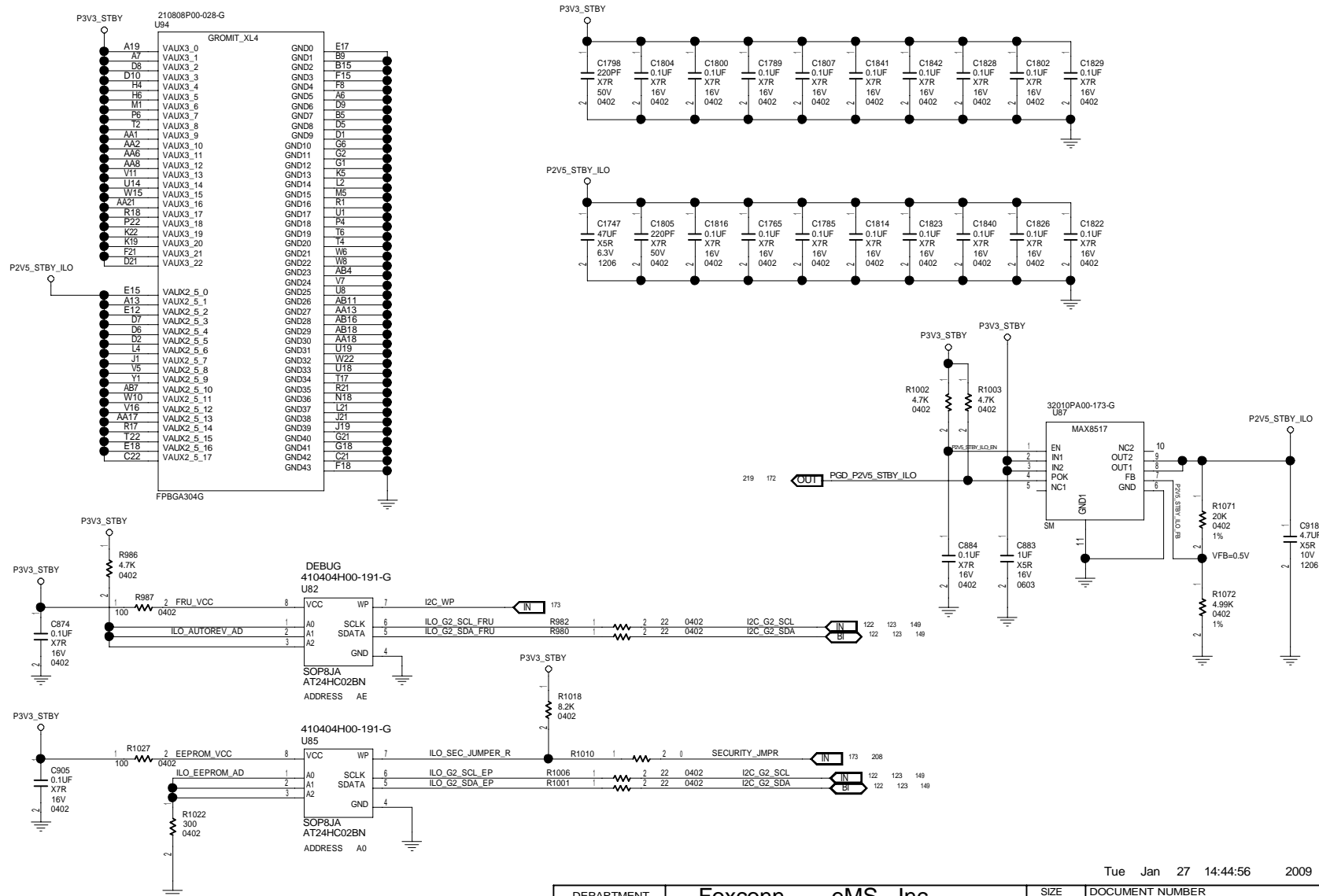
REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 119 OF 247
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ILO

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
B

Tue Jan 27 14:44:56 2009

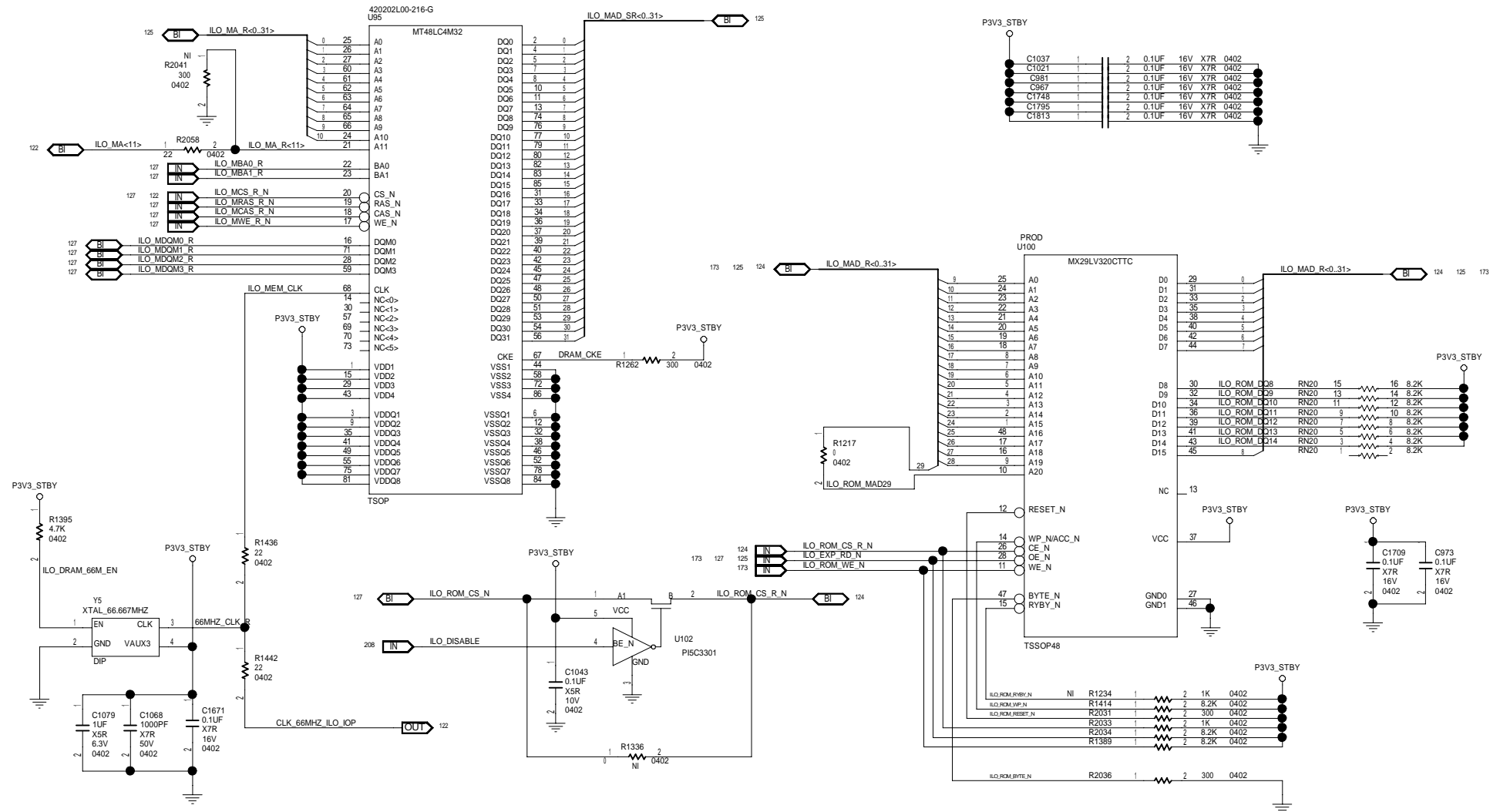
DOCUMENT NUMBER
AMANDAREV
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SCALE:

DO NOT SCALE DRAWING

SHEET 123 OF 247

FOXCONN CONFIDENTIAL



Tue Jan 27 14:44:57 2009

ILO

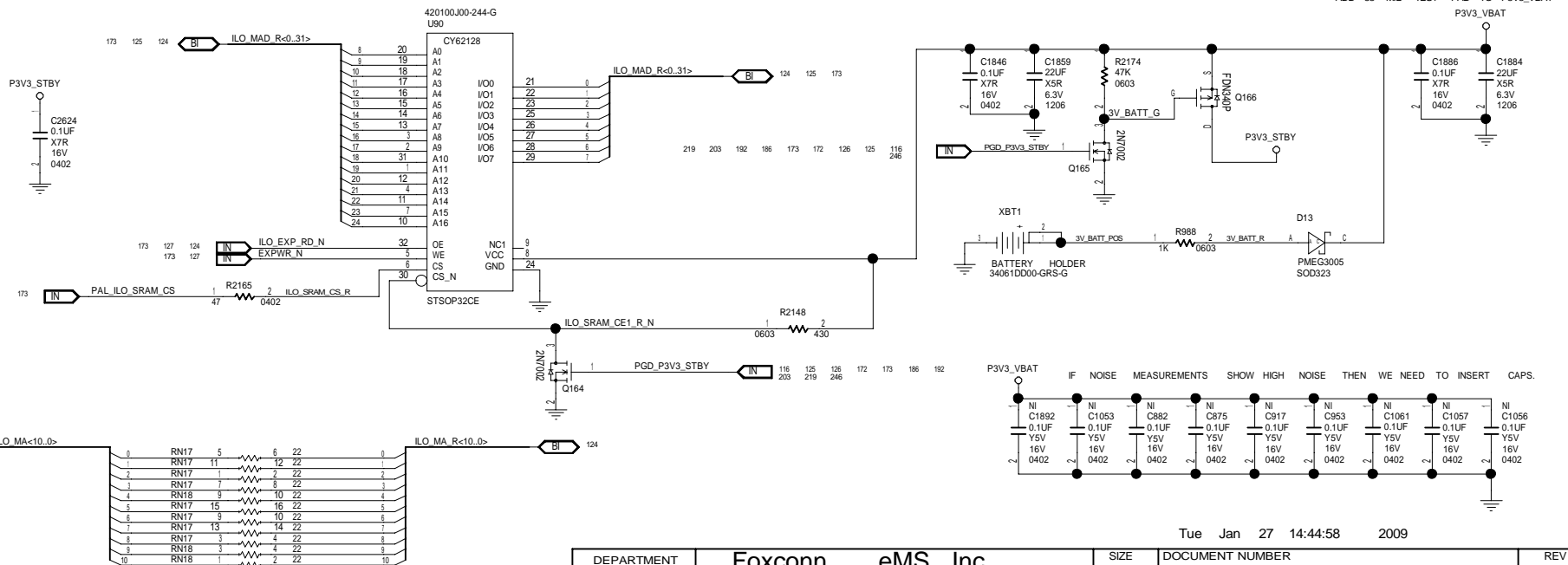
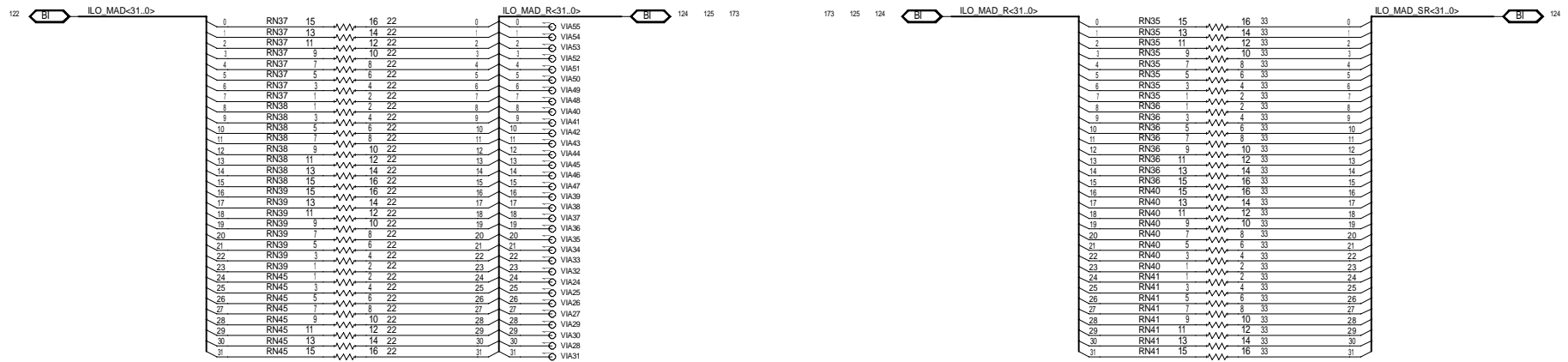
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 124 OF 247

FOXCONN CONFIDENTIAL



Tue Jan 27 14:44:58 2009

ILO

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

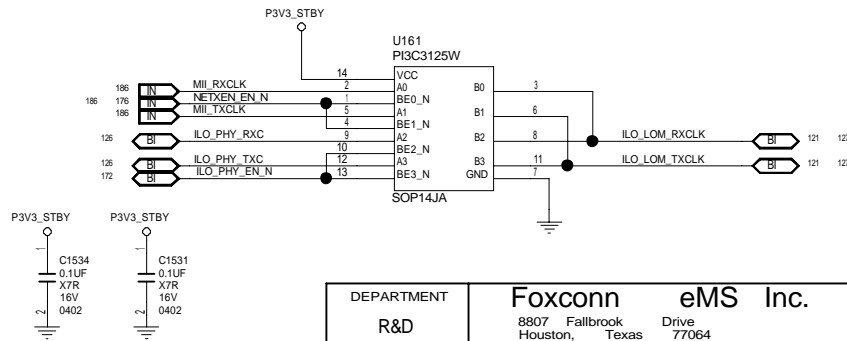
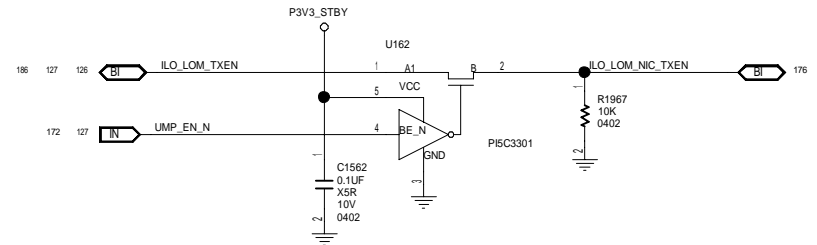
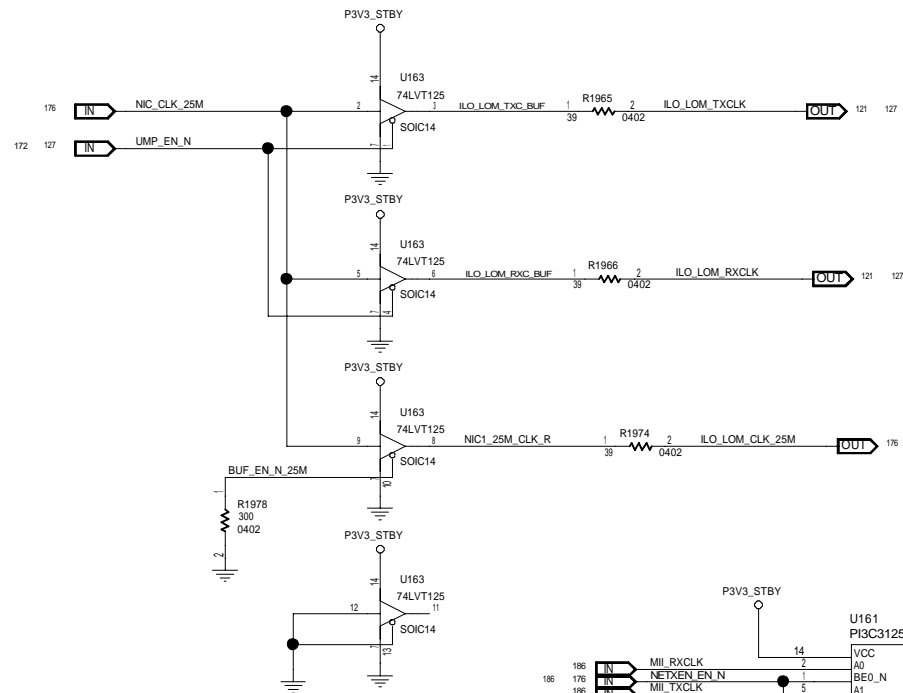
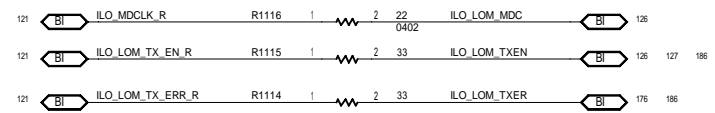
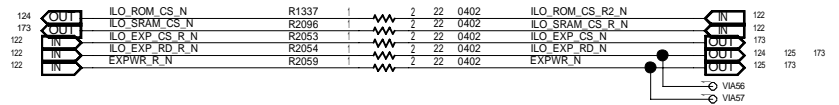
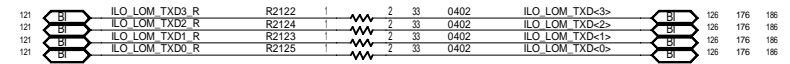
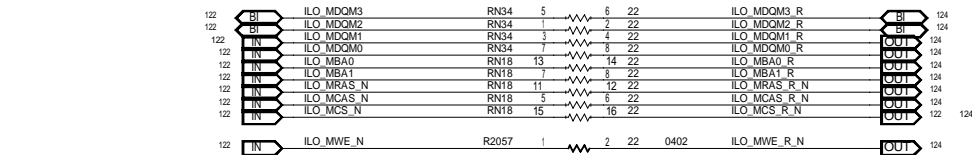
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SHEET 125 OF 247



FOXCONN CONFIDENTIAL



ILO

Tue Jan 27 14:44:59 2009

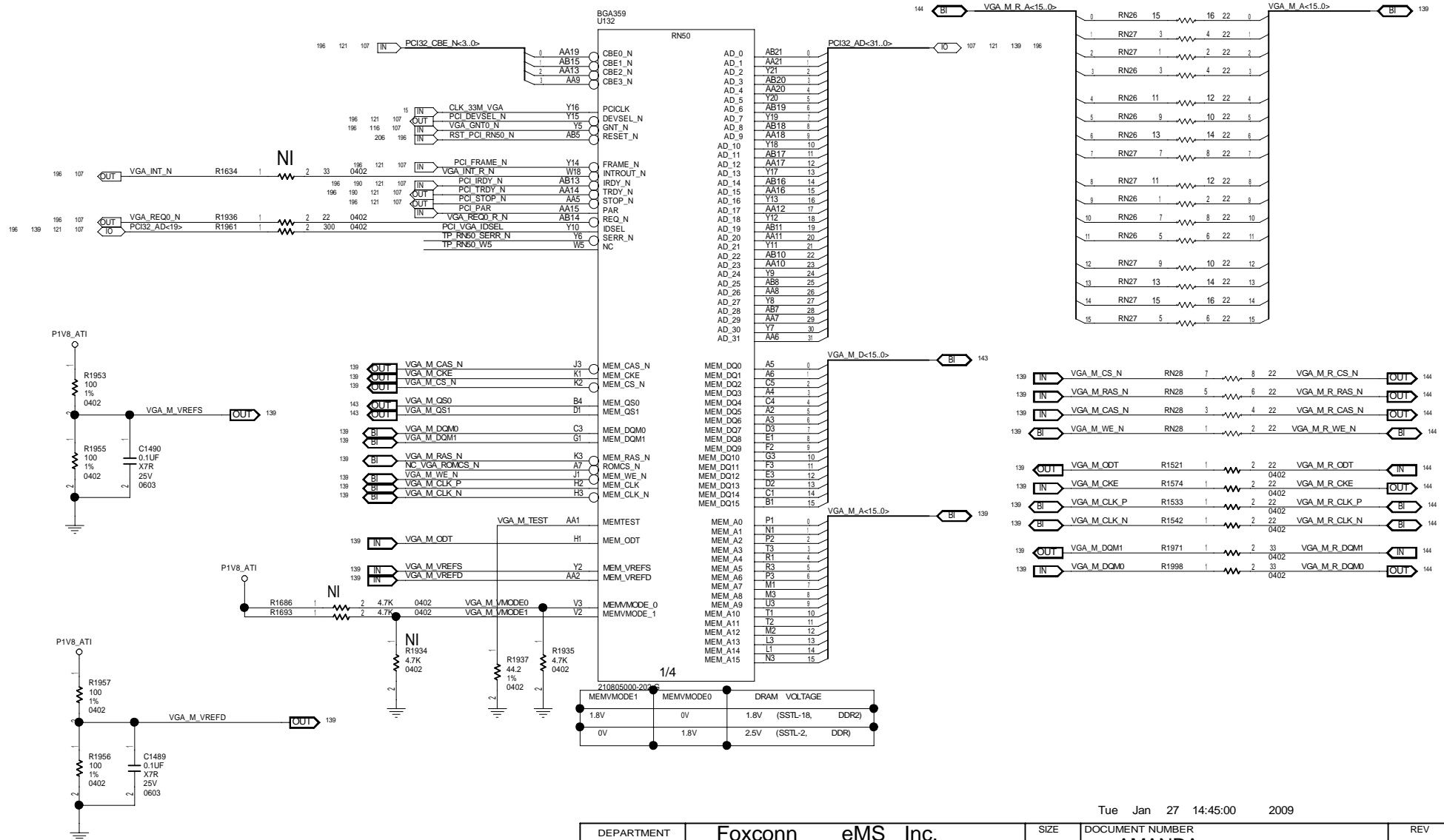
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 127 OF 247

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COMMON DESIGN PLACE NEAR RN50
NORMANDY'S SIMULATION IS NEAR MEMORY

ATI RN50

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
B

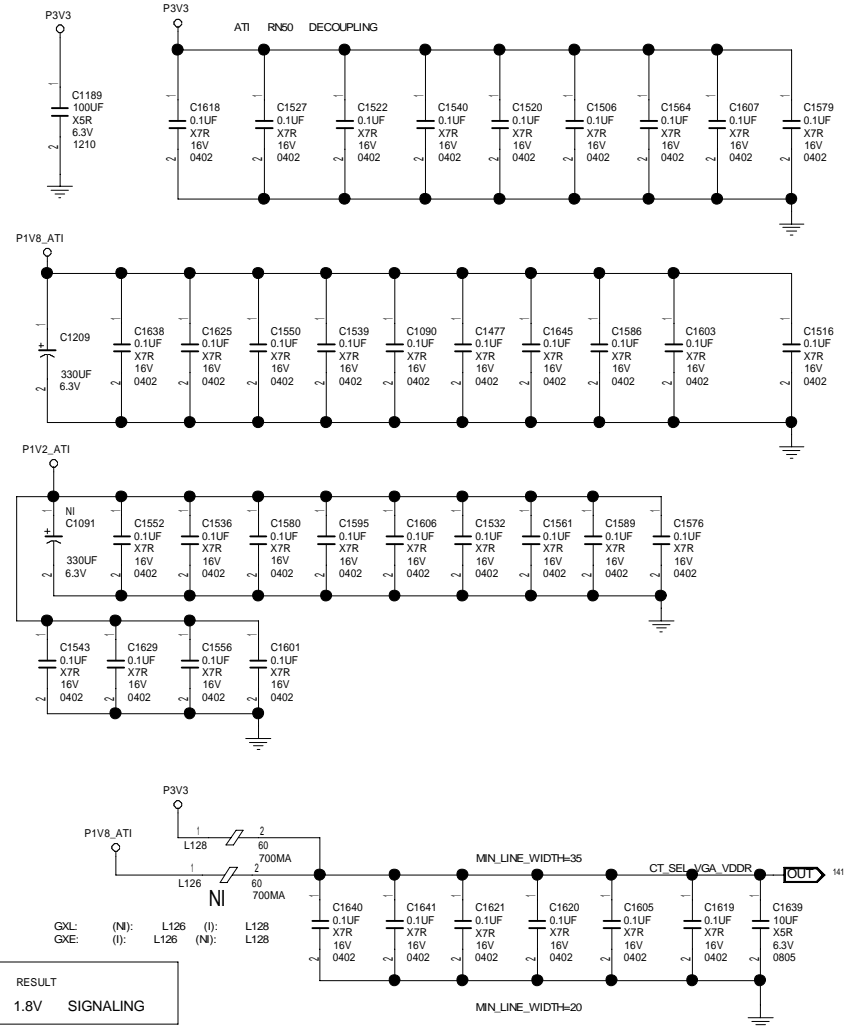
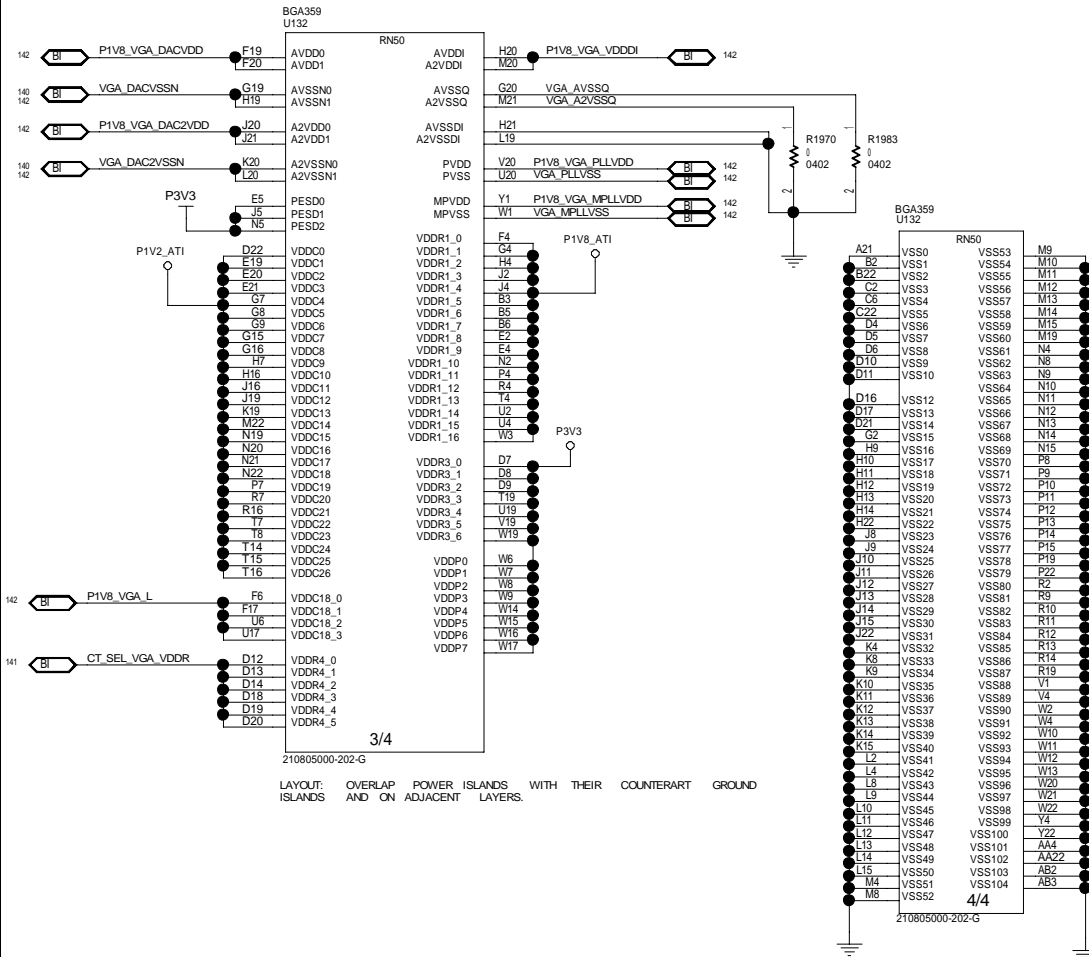
Tue Jan 27 14:45:00 2009

DOCUMENT NUMBER
AMANDAREV
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SCALE: DO NOT SCALE DRAWING SHEET 139 OF 247



FOXCONN CONFIDENTIAL



ATI RN50

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
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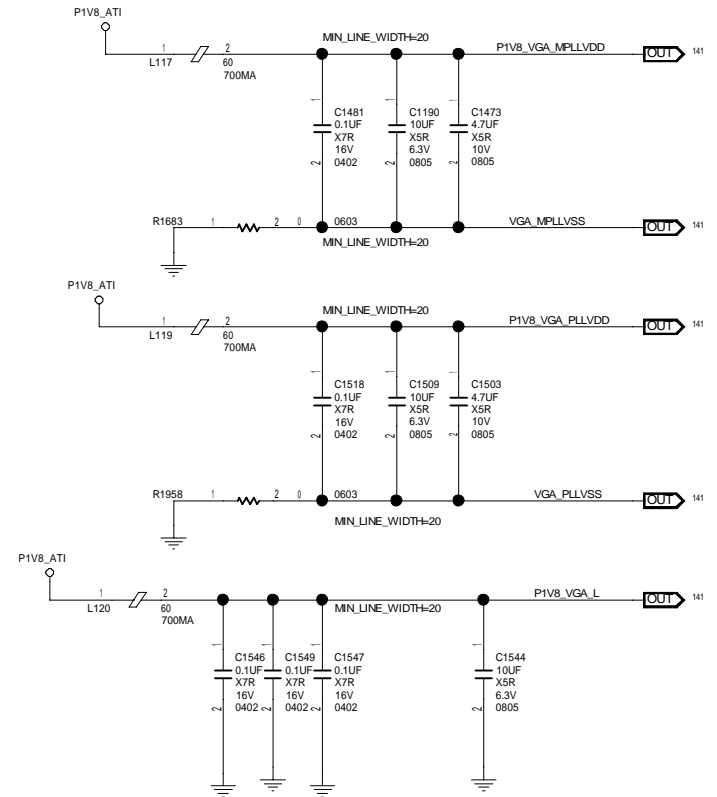
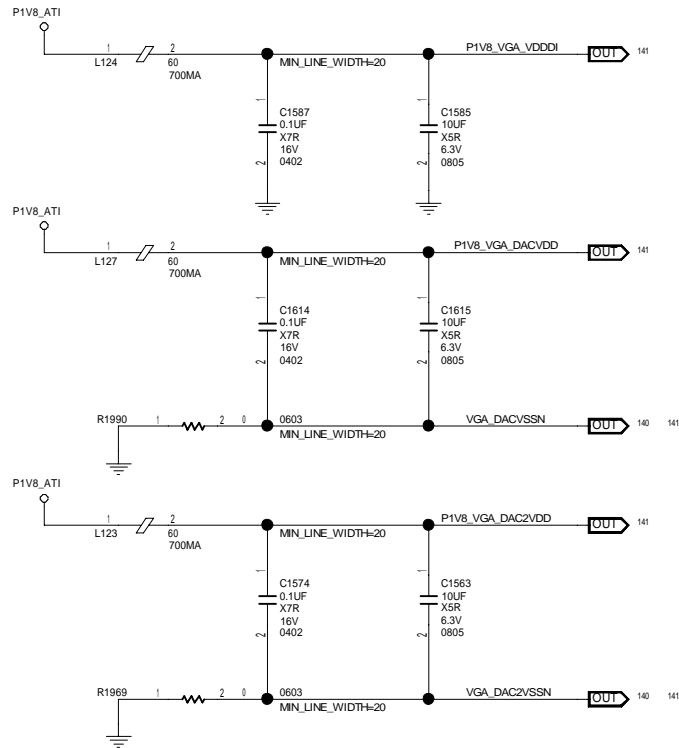
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SHEET 141 OF 247

Tue Jan 27 14:45:01 2009

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:02 2009

ATI RN50

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

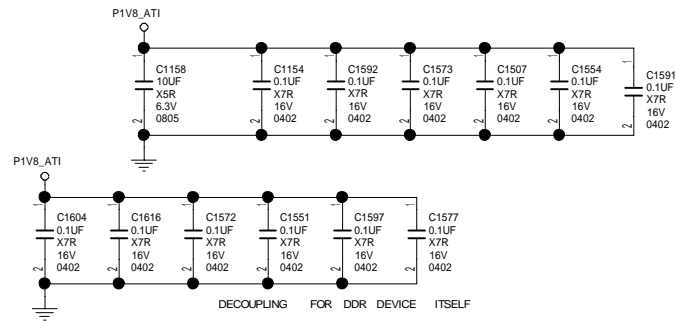
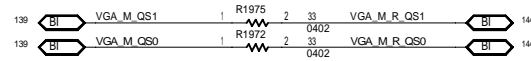
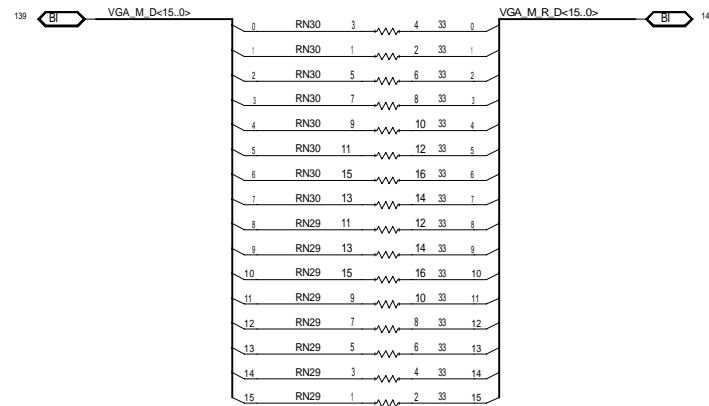
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SHEET 142 OF 247

FOXCONN CONFIDENTIAL

PLACE NEAR SDRAM



Tue Jan 27 14:45:03 2009

ATI RN50

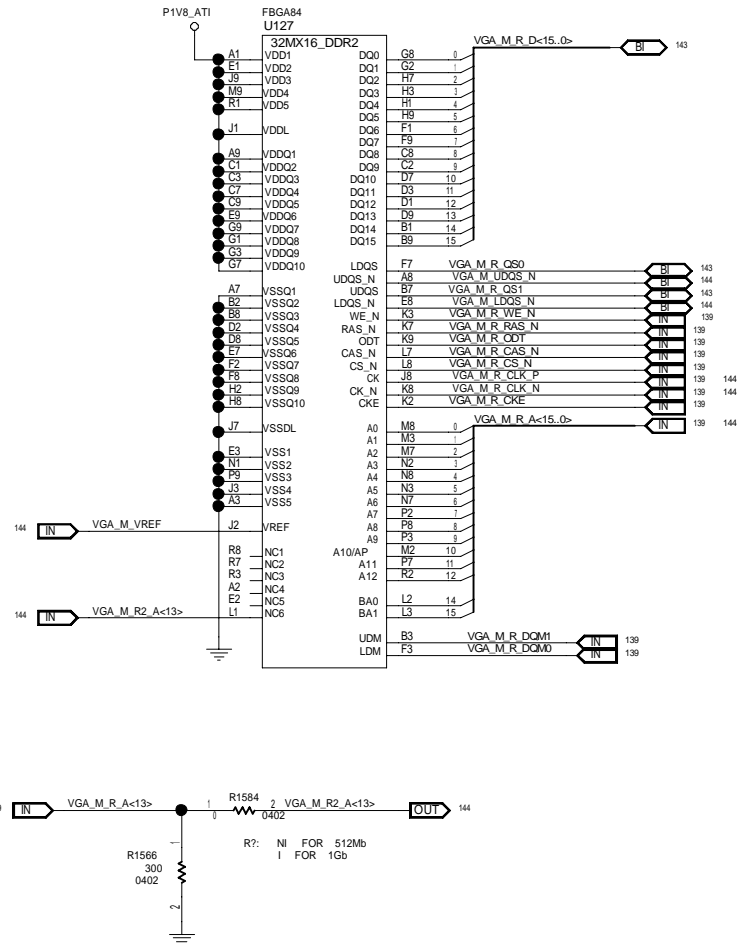
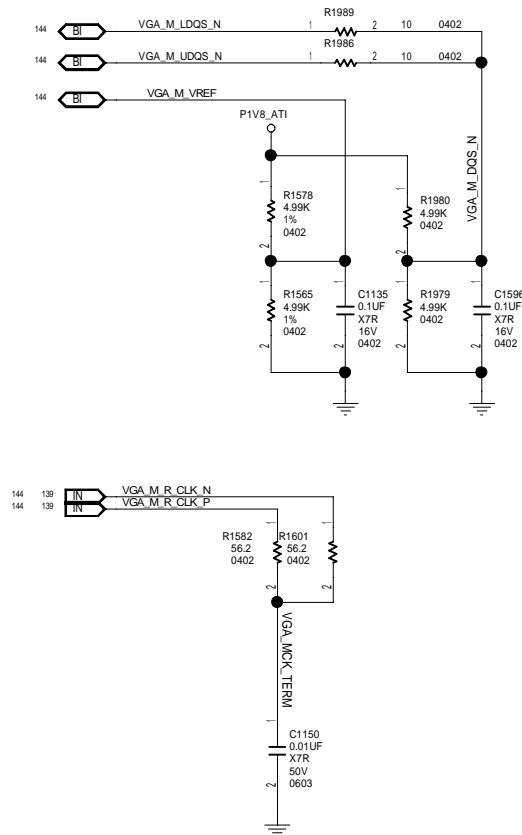
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 143 OF 247

FOXCONN CONFIDENTIAL



Thu Mar 05 15:37:17 2009

ATI RN50

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

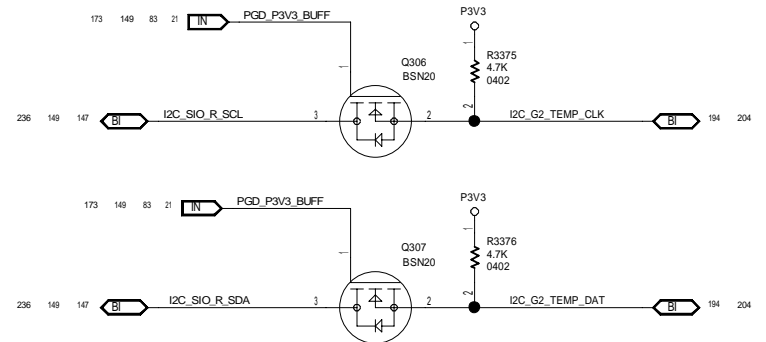
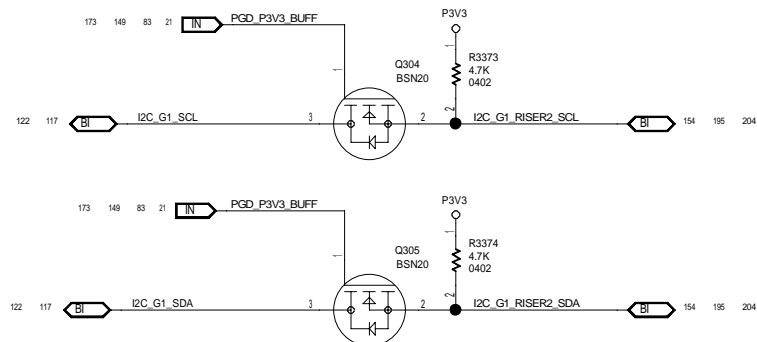
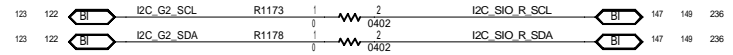
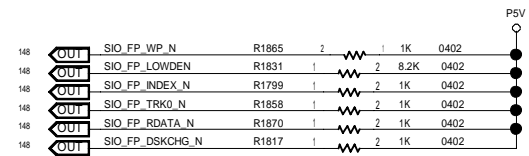
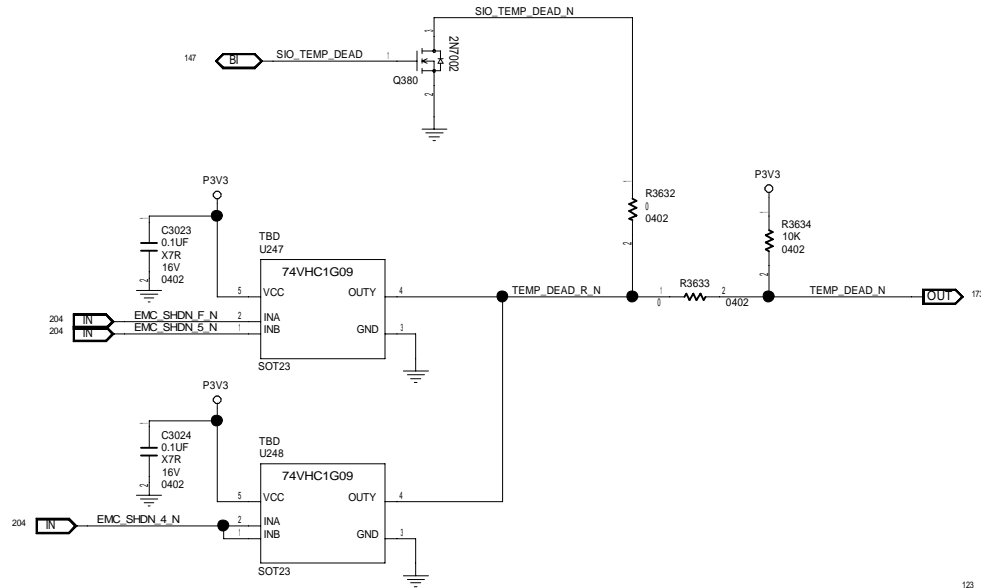
SHEET 144 OF 247







FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:06 2009

SIO

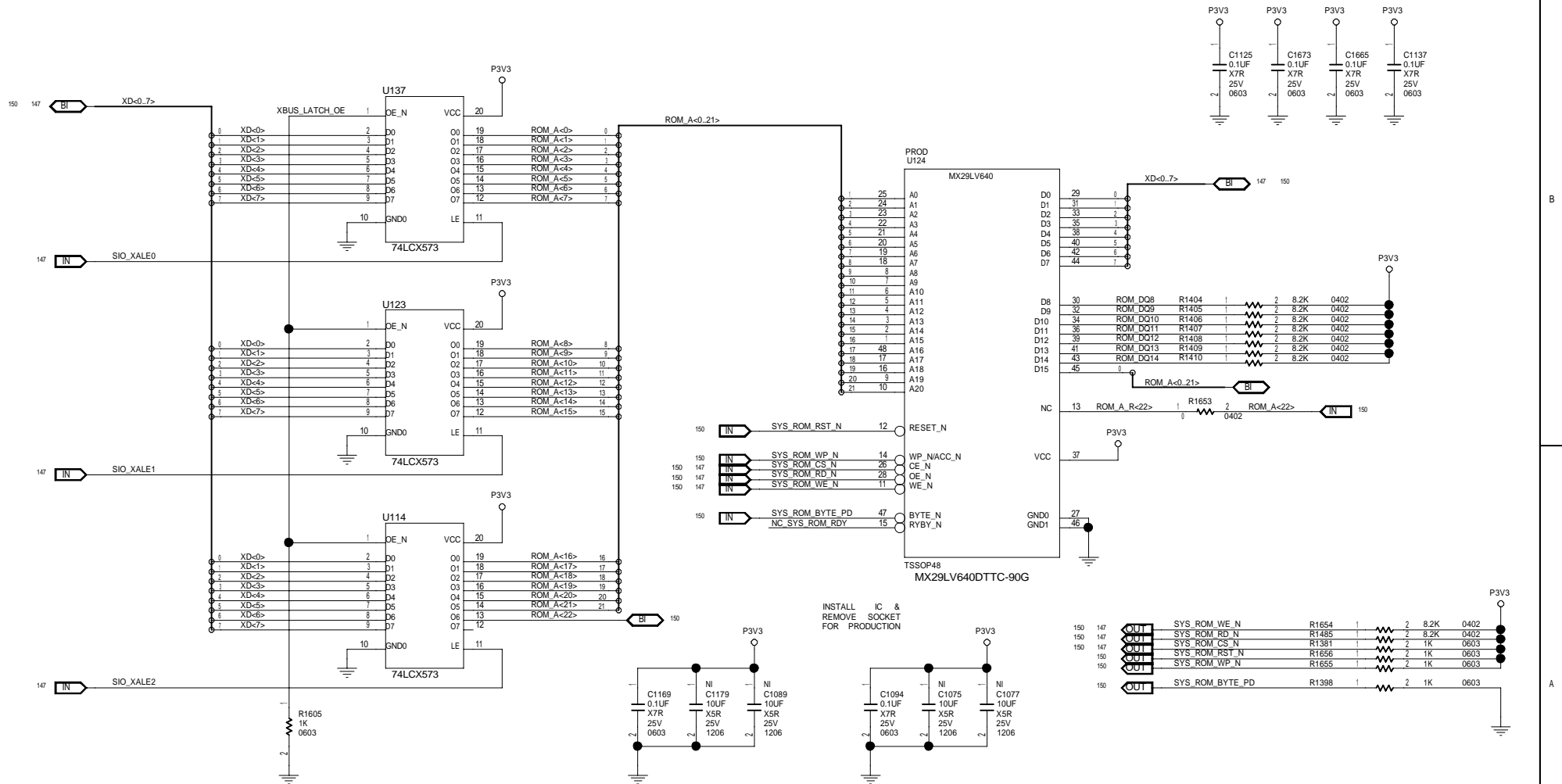
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 149 OF 247

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X-BUS ROM

DEPARTMENT
R&D

Foxconn eMS Inc.
 8807 Fallbrook Drive
 Houston, Texas 77064
 (281) 668-1668

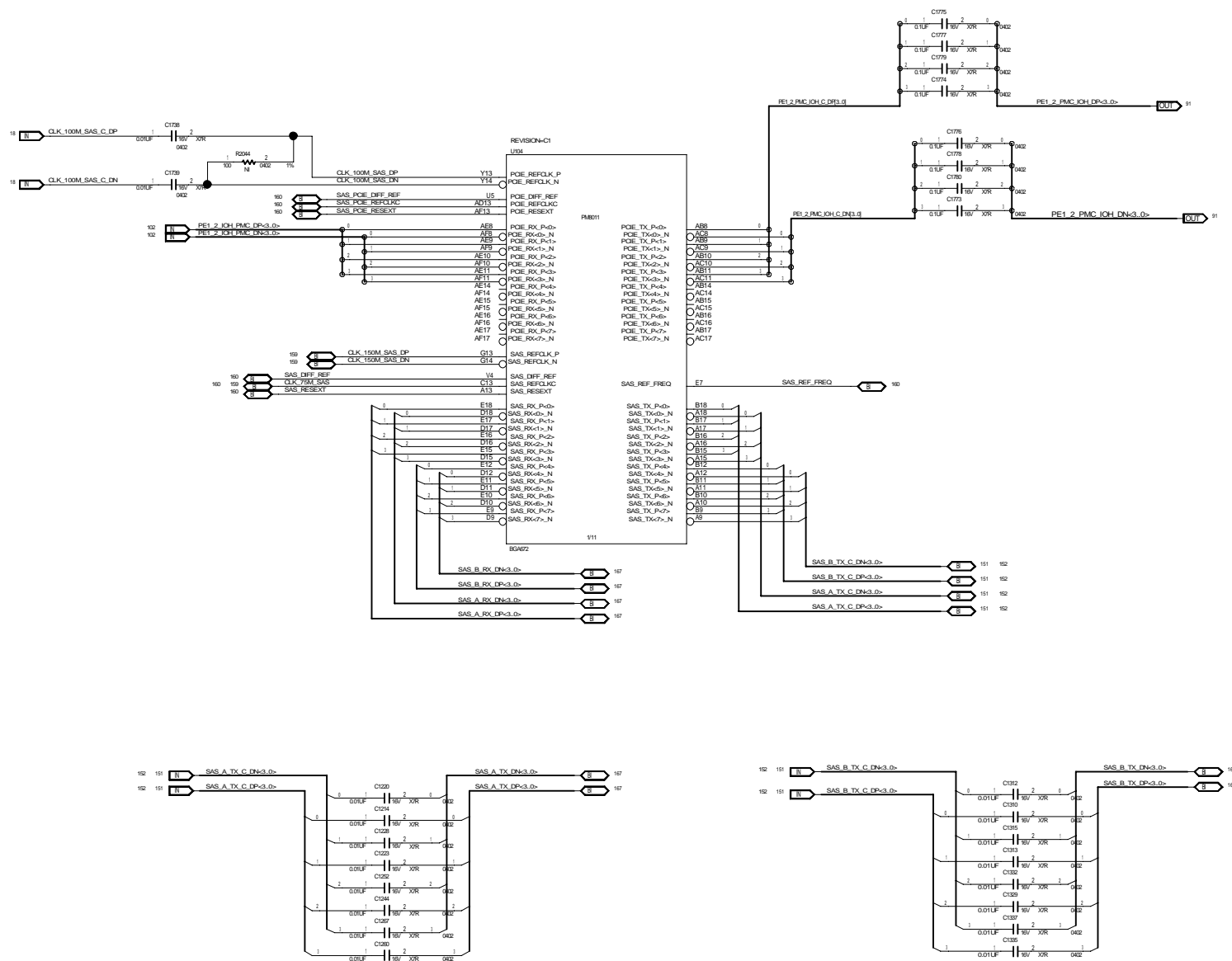
SIZE
BDOCUMENT NUMBER
AMANDAREV
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SCALE:

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SHEET 150 OF 247

Tue Jan 27 14:45:07 2009

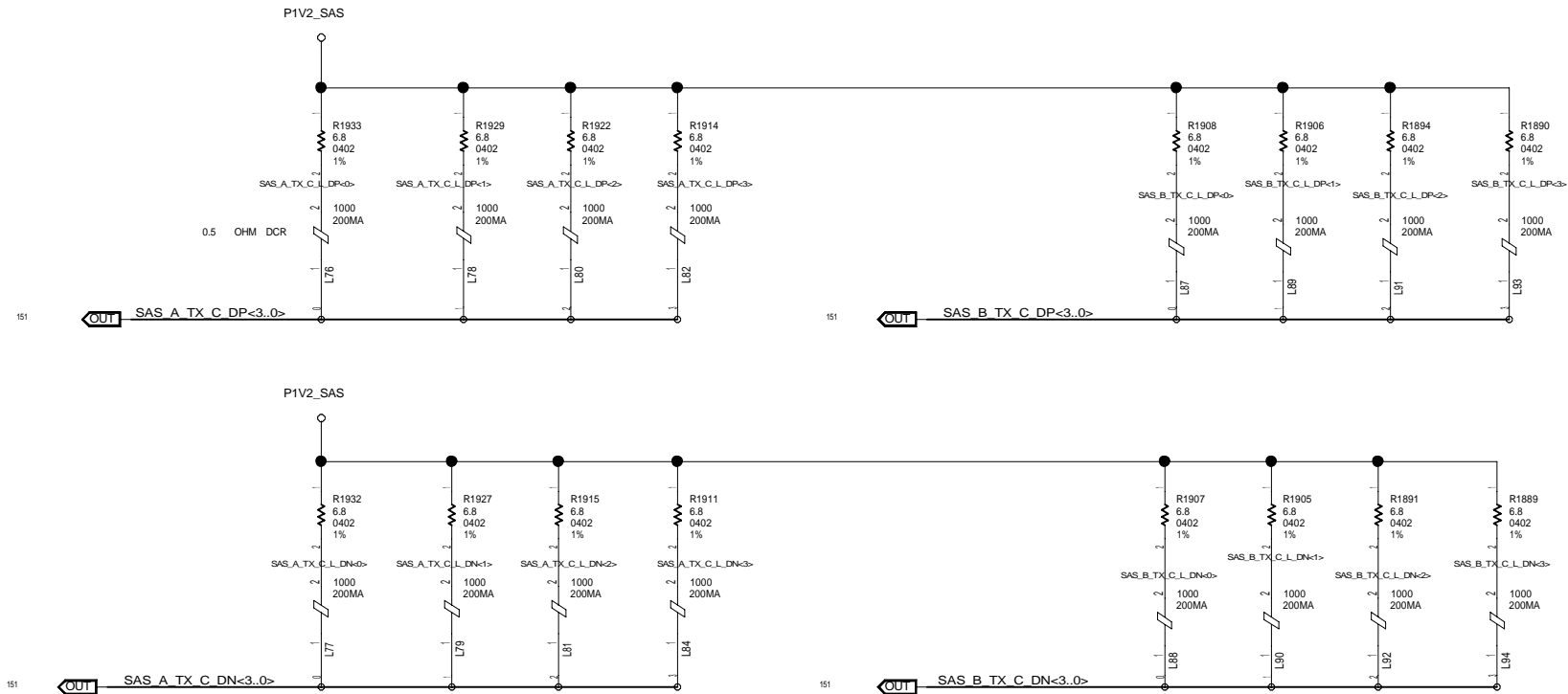


CHANGED FROM 0.1 TO 0.01UF PER HP REVIEW 6/26

CHANGED FROM 0.1 TO 0.01UF PER HP REVIEW 6/26

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BEAD(S) CAN BE REMOVED IN PRODUCTION
ONLY IF SI GROUP EVALUATES THERE IS ENOUGH MARGIN WITHOUT THEM



SAS

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

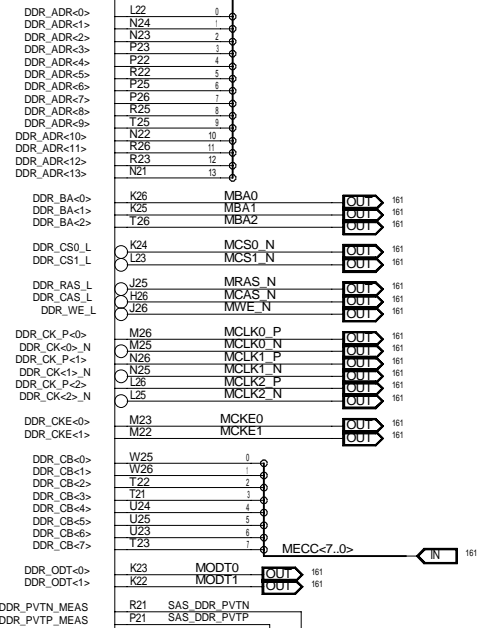
SCALE: DO NOT SCALE DRAWING SHEET 152 OF 247

Tue Jan 27 14:45:08 2009

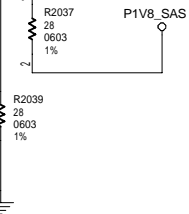
FOXCONN CONFIDENTIAL

REVISION-C1
U104

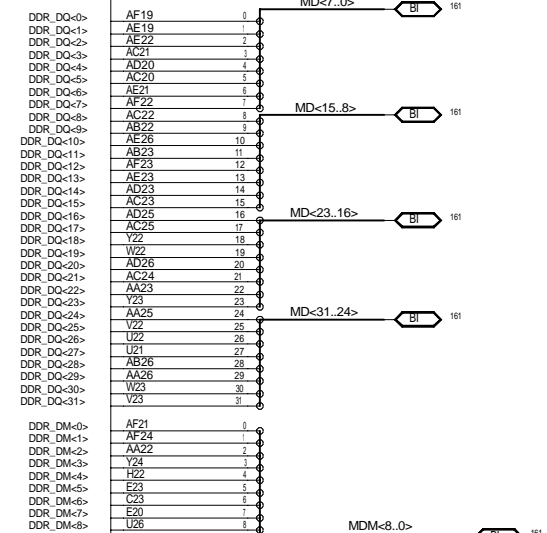
PM8011



2/11

REVISION-C1
U104

PM8011



3/11

SAS

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

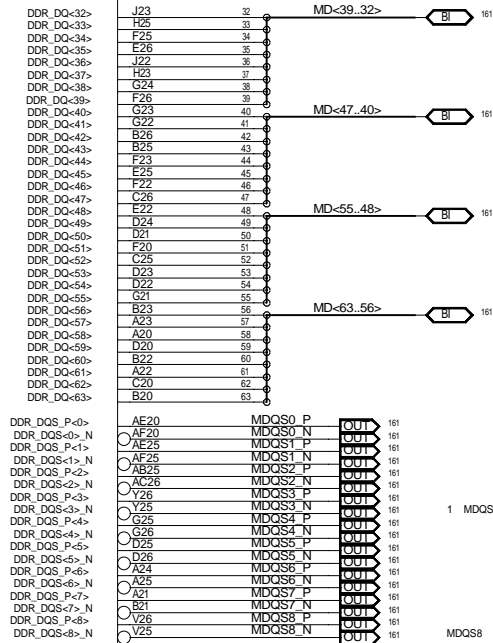
DO NOT SCALE DRAWING SHEET 153 OF 247

Tue Jan 27 14:45:08 2009

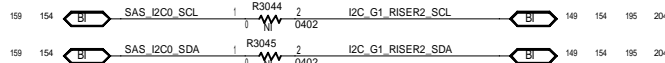
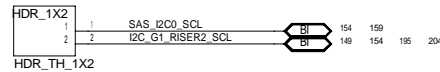
FOXCONN CONFIDENTIAL

REVISION=C1
U104

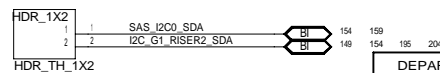
PM8011



4/11

VERTICAL
DEBUG J86
TBD_HB1202V-K

PLACE CLOSE TO PMC

VERTICAL
DEBUG J85
TBD_HB1202V-K

SAS

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

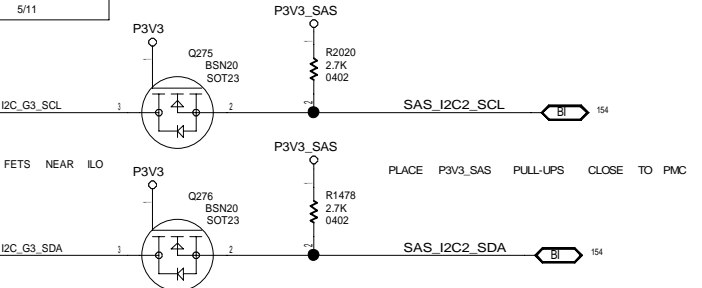
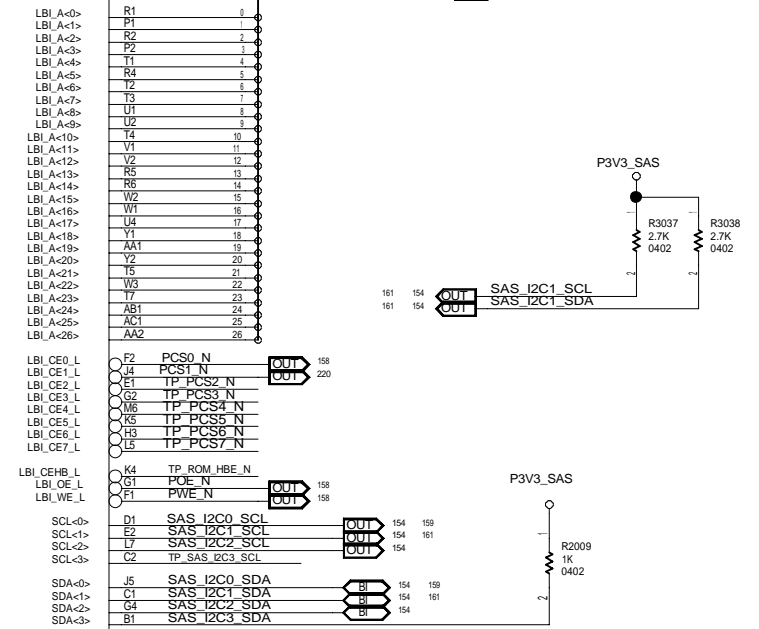
SCALE:

DO NOT SCALE DRAWING

SHEET 154 OF 247

REVISION=C1
U104

PM8011



PLACE FETS NEAR ILO

PLACE P3V3_SAS PULL-UPS CLOSE TO PMC

Tue Jan 27 14:45:09 2009

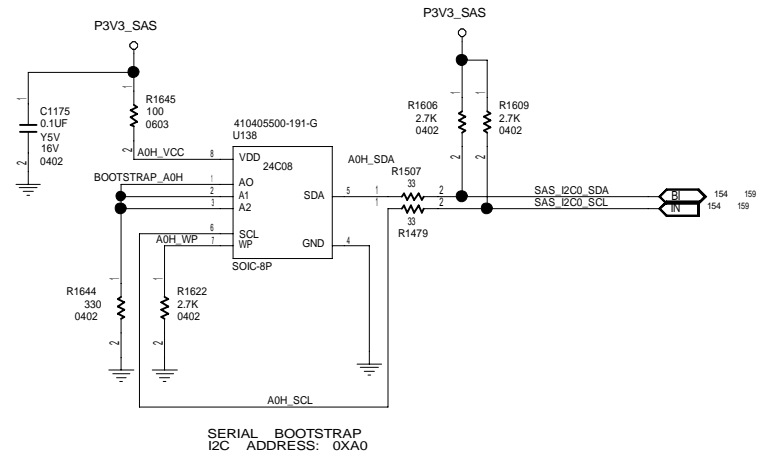
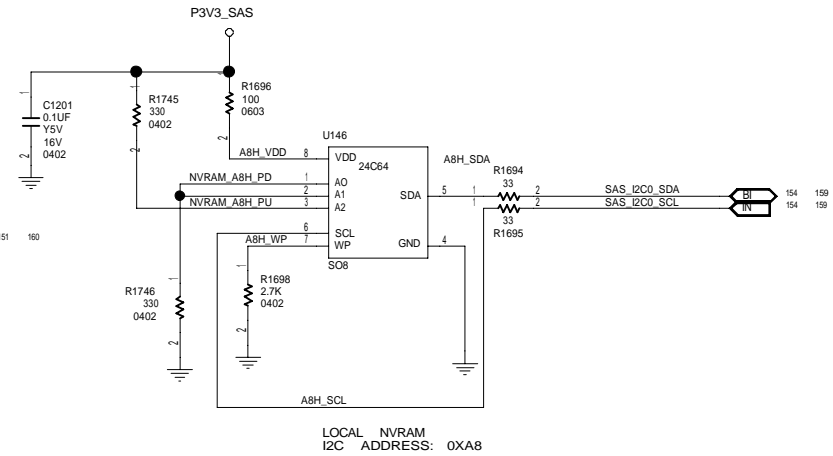
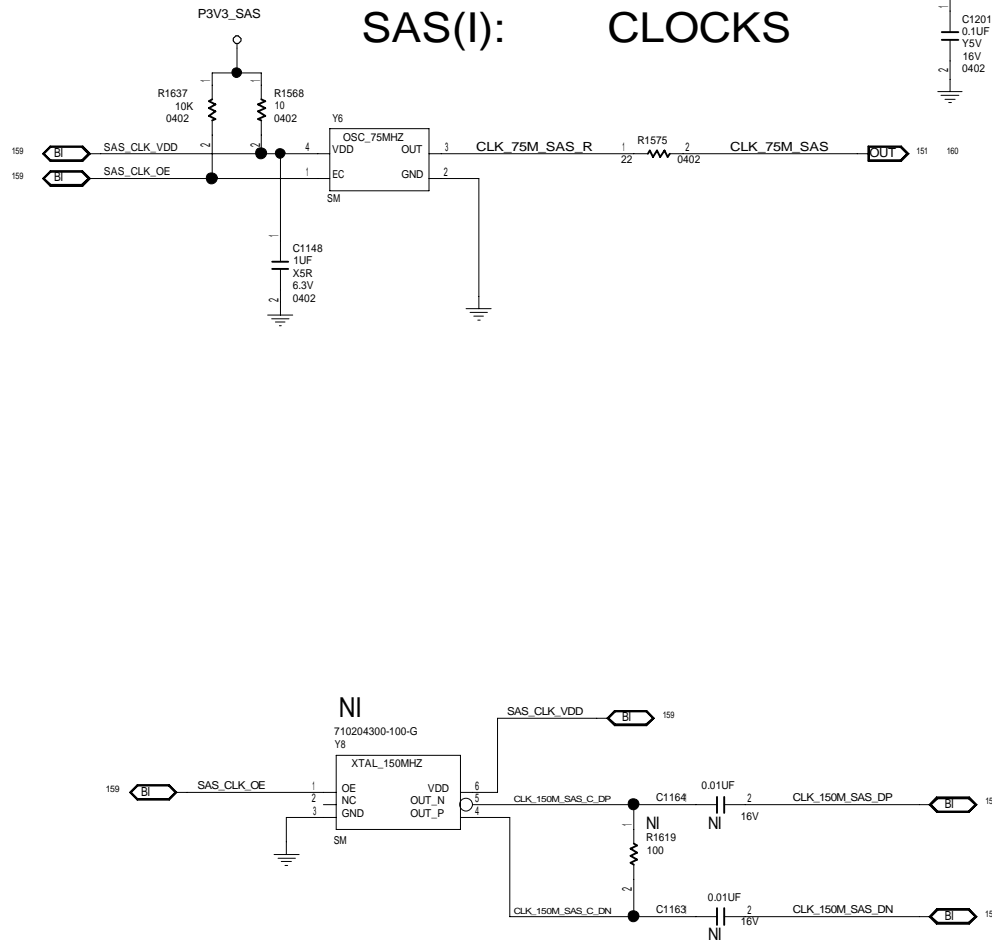






FOXCONN CONFIDENTIAL

SAS(I): CLOCKS

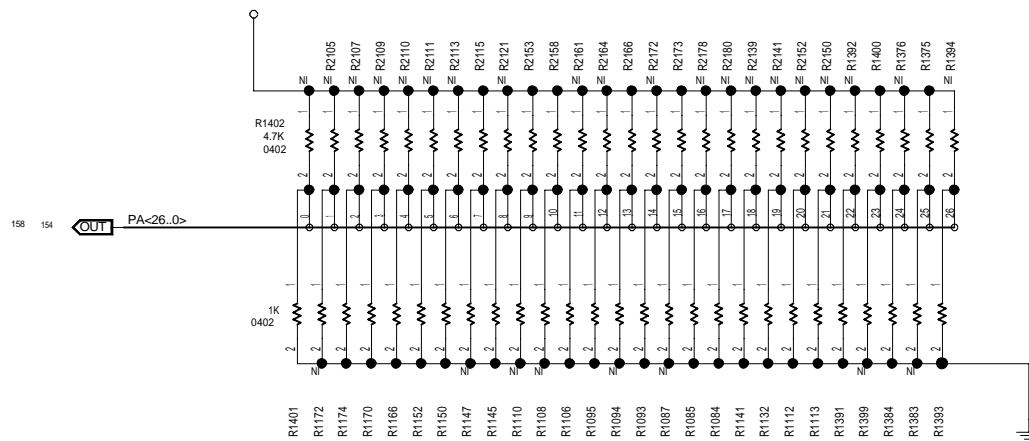
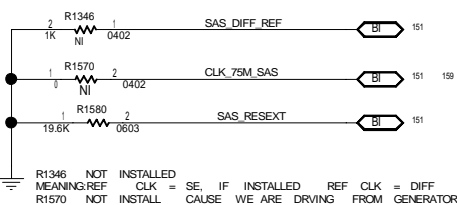
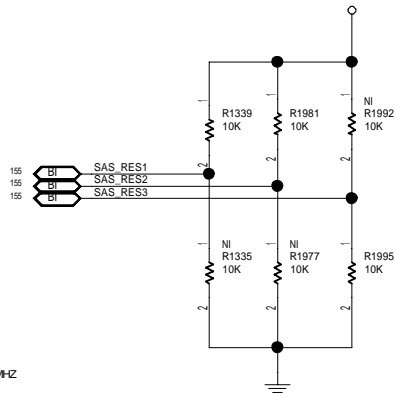


I2C & BOOTSTRAP

SAS

Tue Jan 27 14:45:12 2009

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE	DRAWING	SHEET 159	OF 247



Tue Jan 27 14:45:13 2009

SAS

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
B

DOCUMENT NUMBER	AMANDA
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REV
B

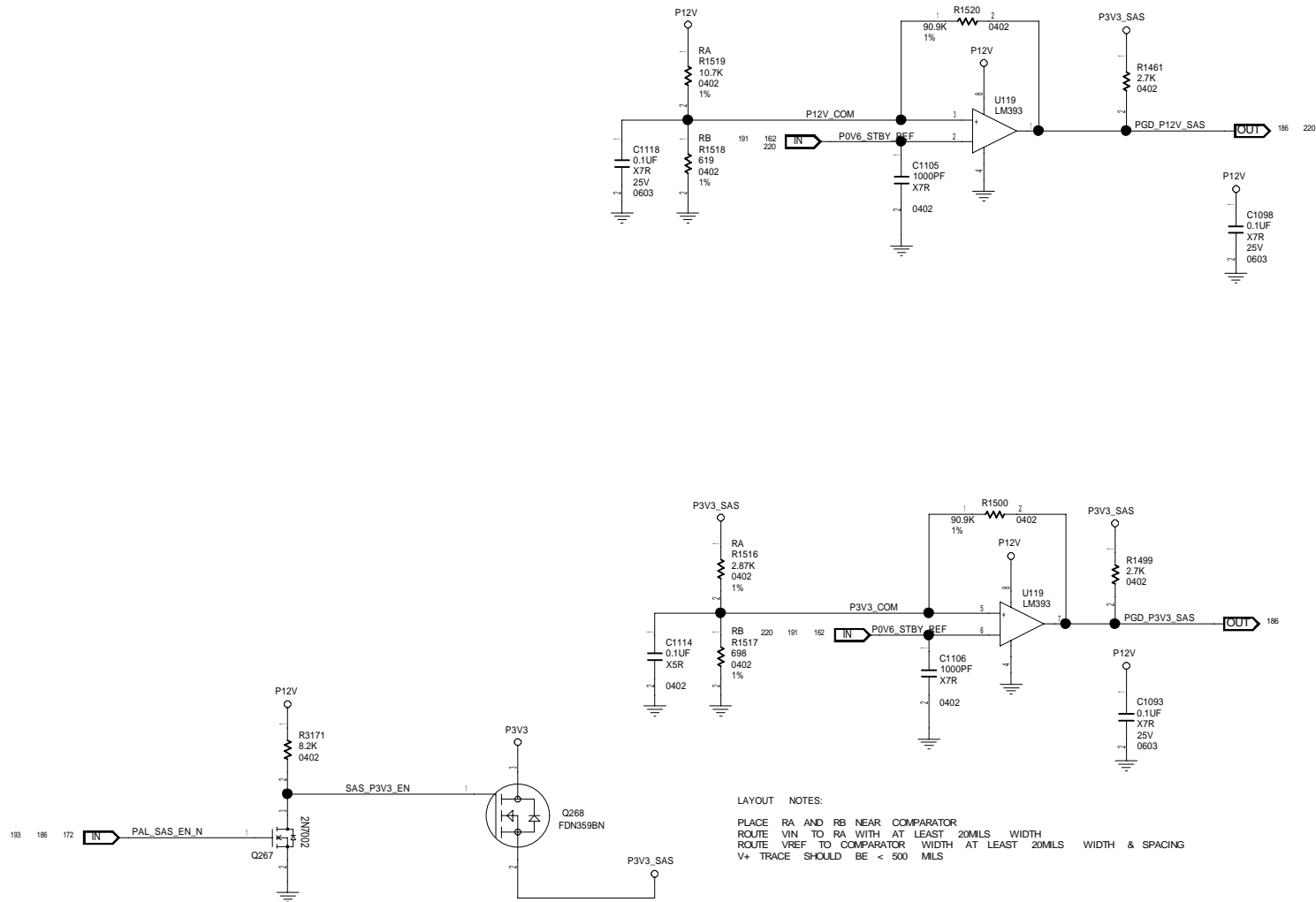
SCALE:

DO NOT SCALE DRAWING

SHEET 160 OF 247



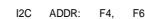
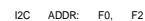
FOXCONN CONFIDENTIAL



SAS

Tue Jan 27 14:45:14 2009

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 162	OF 247	

DEPARTMENT
R&D

8807 Fallbrook
Houston, Texas
(281) 668-1668

Drive
77064

SCALE:

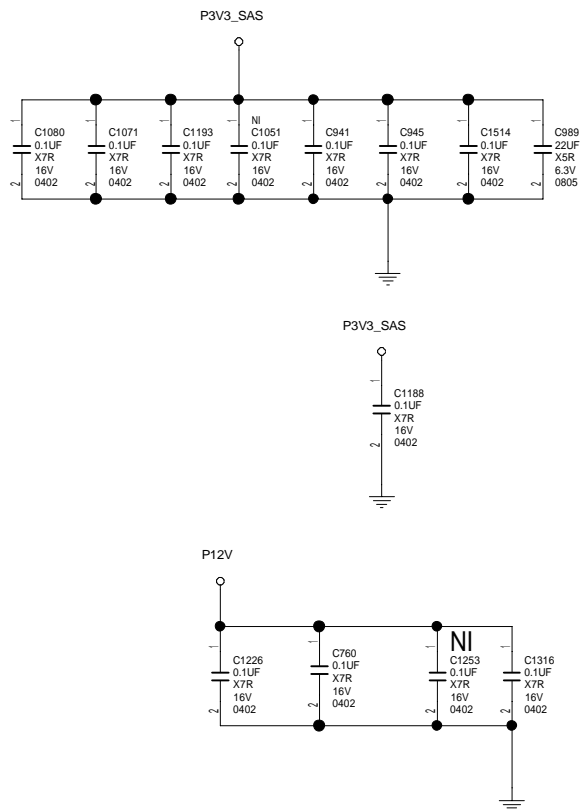
Thu Mar 05 10:46:19 2009

REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 163 OF 247
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FOXCONN CONFIDENTIAL

SAS(I): DECOUPLING CAPS



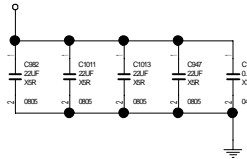
SAS

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 164	OF 247	

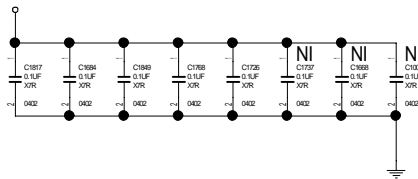
Tue Jan 27 14:45:15 2009

SAS(I): UNPLACED DECOUPLING CAPS

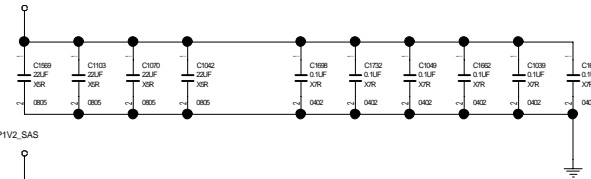
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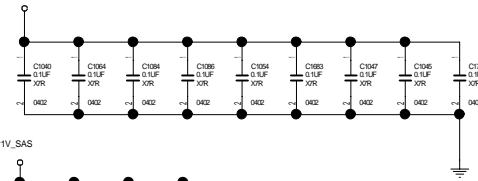
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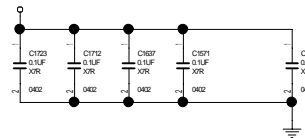
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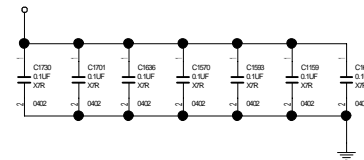
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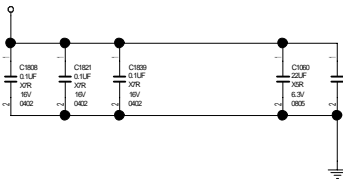
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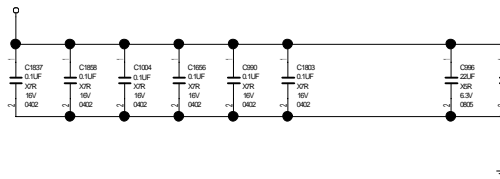
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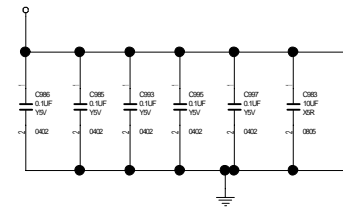
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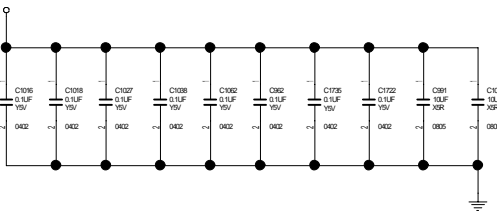
P1V8_SAS



P1V8_SAS

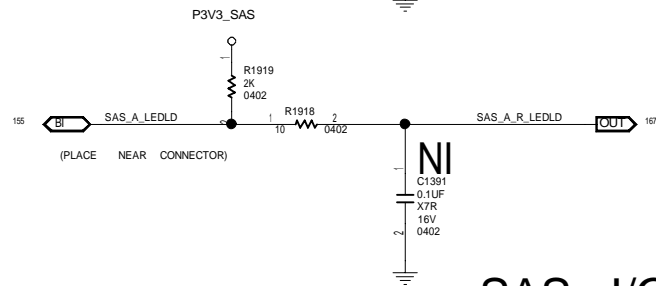
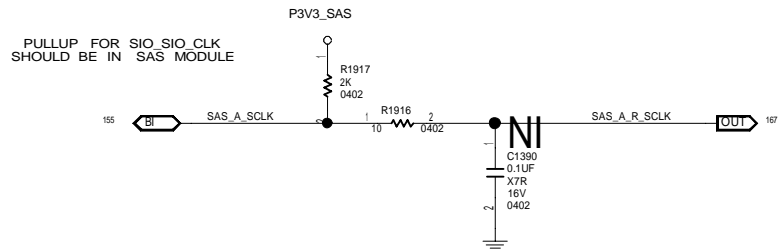


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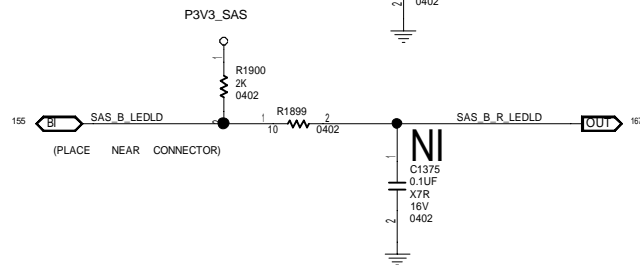
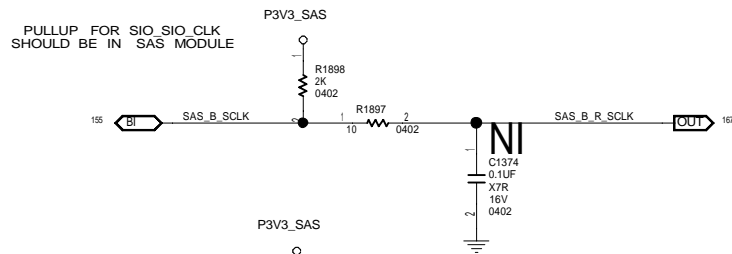


SAS - UNPLACED DECOUPLING CAPS

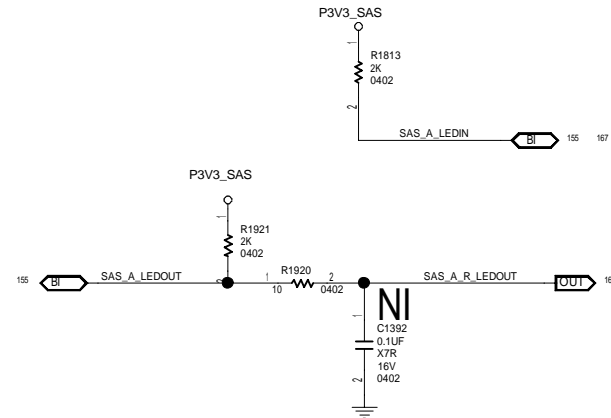
FOXCONN CONFIDENTIAL



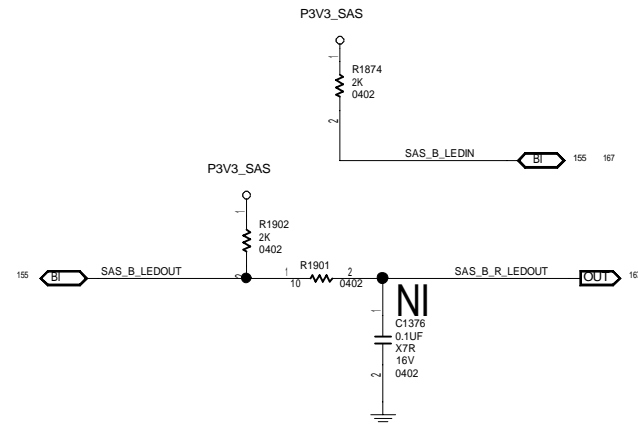
SAS I/O



PURPOSE OF THESE IS TO DOWN EDGES OVER THE CABLE
MUST DO THE SAME FOR I2C IF WE PUT IT OVER THE CABLE



- BUFFERS



SAS

Tue Jan 27 14:45:16 2009

 DEPARTMENT
R&D

 Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

 SIZE
B

 DOCUMENT NUMBER
AMANDA

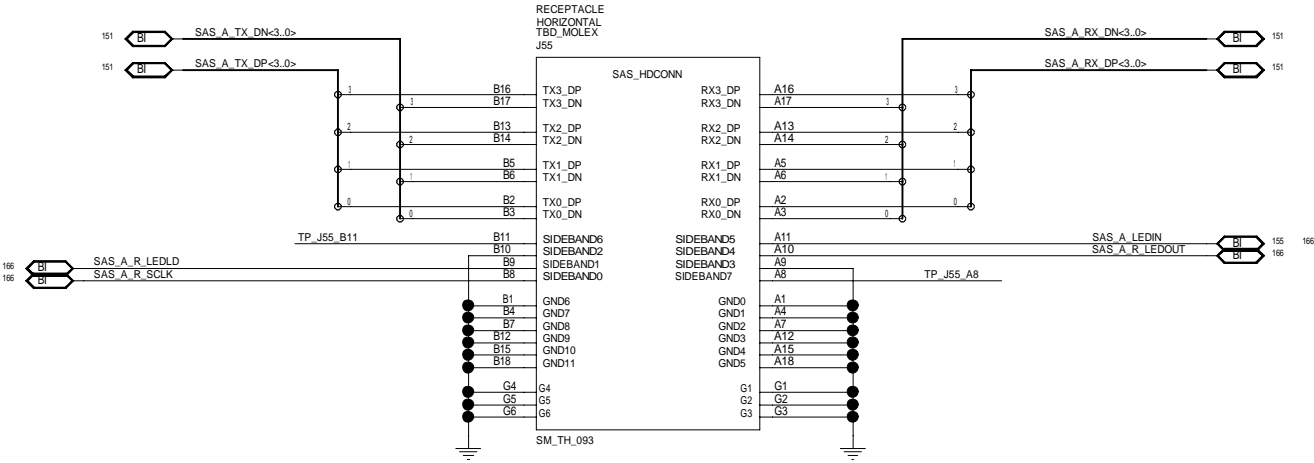
 REV
B

SCALE:

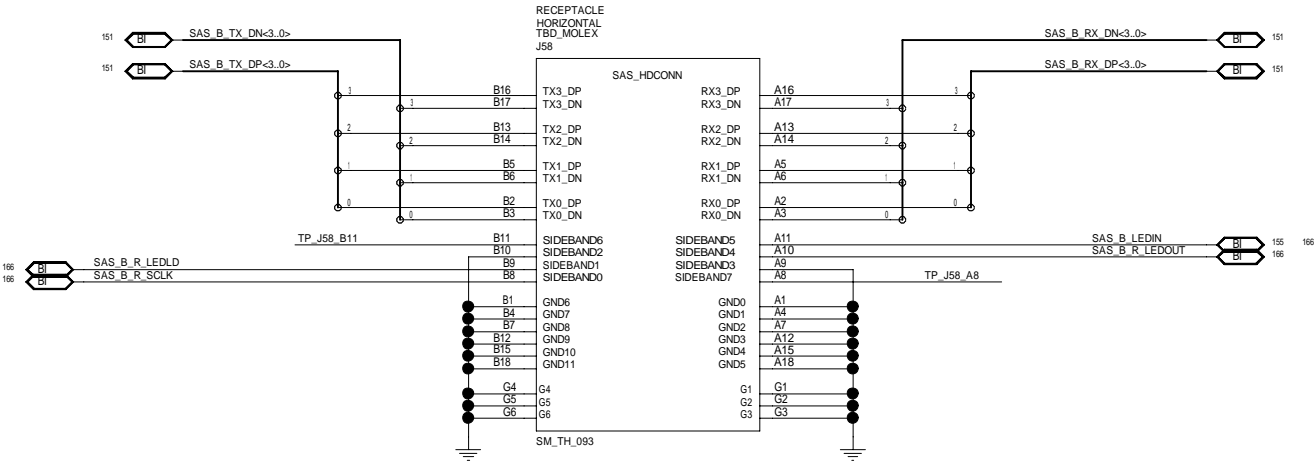
DO NOT SCALE DRAWING

SHEET 166 OF 247

FOXCONN CONFIDENTIAL



SAS CONNECTOR



SAS CONNECTOR

Tue Jan 27 14:45:16 2009

SAS

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE	DRAWING	SHEET 167	OF 247



REV
B

SHEET 169 OF 247

Tue Jan 27 14:43:52 2009

DEPARTMENT
R&D

SIZE
B

REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 170 OF 247
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DEPARTMENT
R&D

	SIZE
	B

REV
B

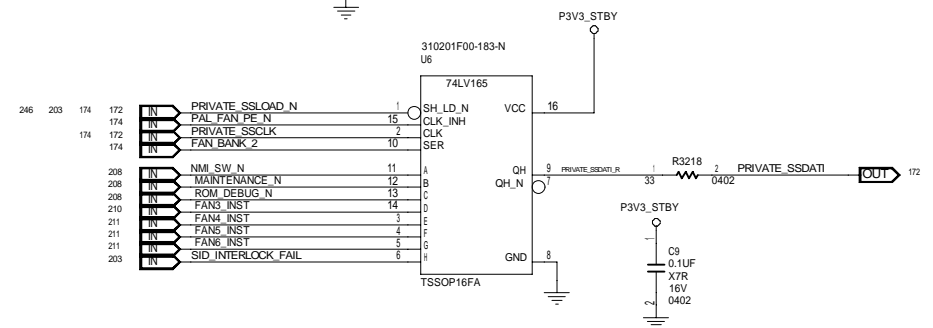
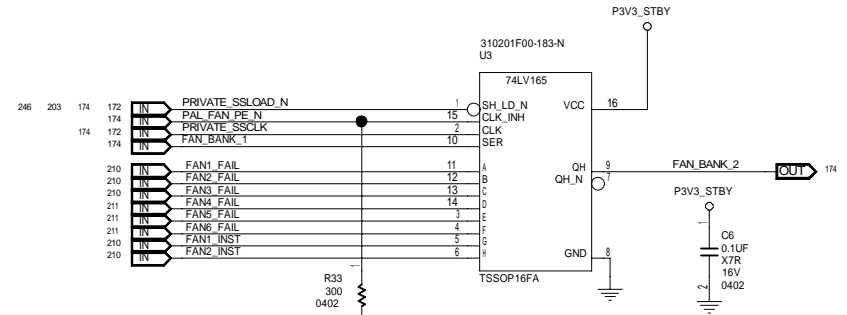
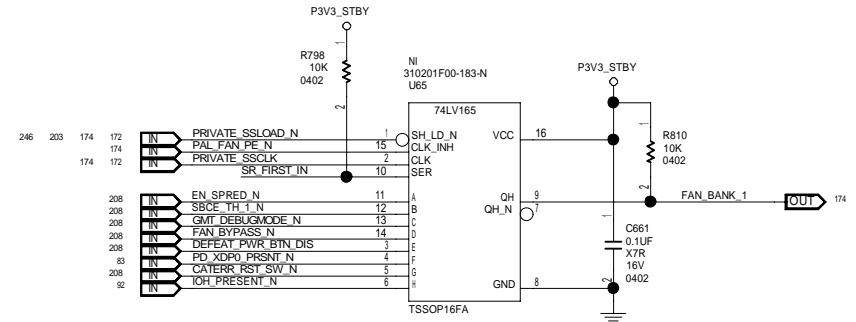
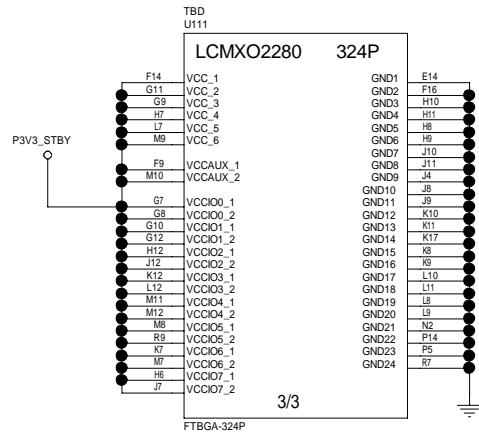
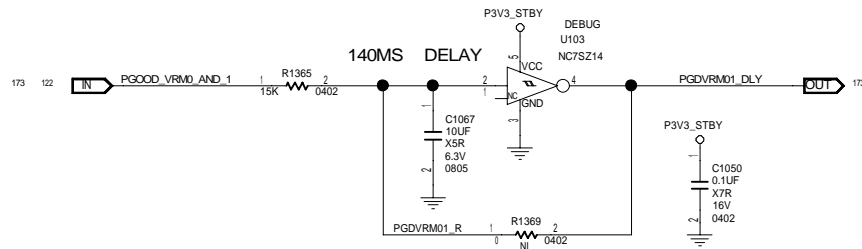
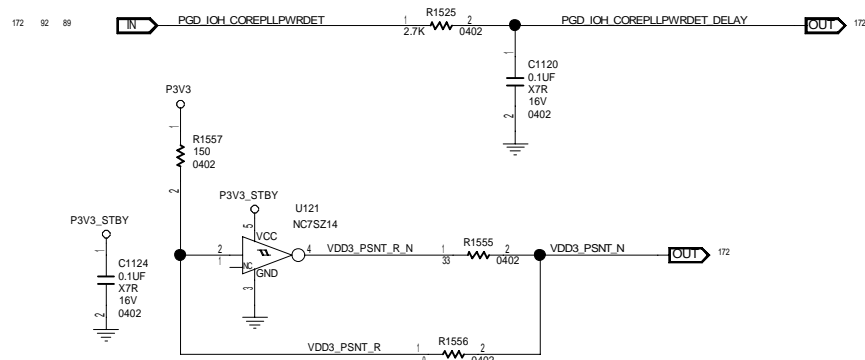
SCALE:	DO NOT SCALE DRAWING	SHEET 171 OF 247
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FOXCONN CONFIDENTIAL

200US DELAY



Wed Mar 04 13:39:52 2009

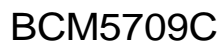
PAL PWR / SHIFT REGISTERS

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

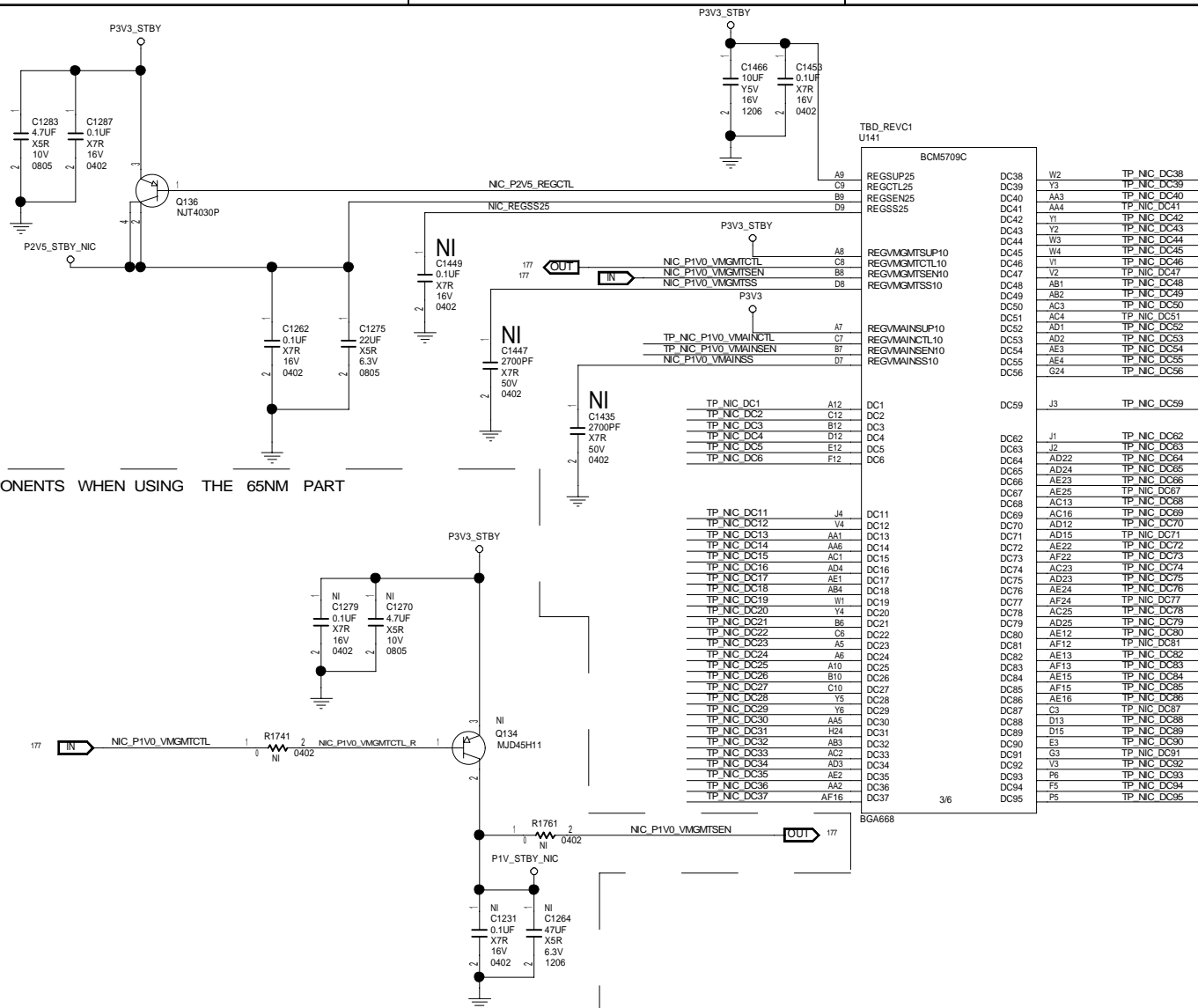
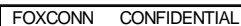
SCALE:

DO NOT SCALE DRAWING

SHEET 174 OF 247



DO NOT SCALE DRAWING	SHEET 175 OF 247
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ONLY INSTALL THESE COMPONENTS WHEN USING THE 65NM PART

BCM5709C

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

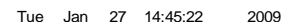
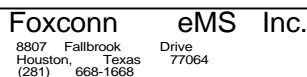
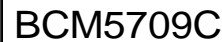
SIZE
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Tue Jan 27 14:45:21 2009

DOCUMENT NUMBER	AMANDA
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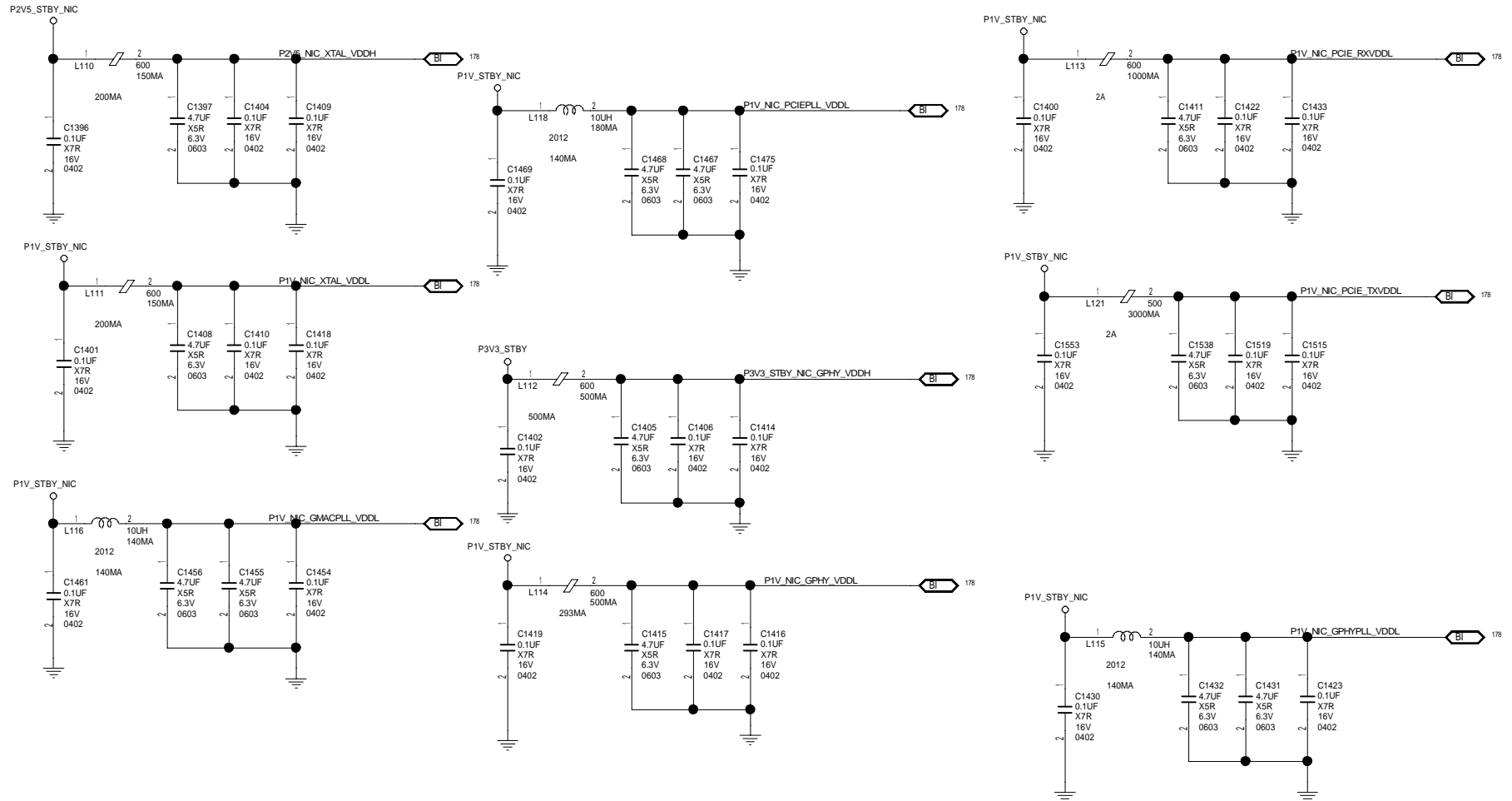
REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 177 OF 247
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SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 178 OF 247

FOXCONN CONFIDENTIAL



ALL SMALL VALUE CAPS SHOULD BE PLACED CLOSE TO NIC POWER PINS

Tue Jan 27 14:45:22 2009

BCM5709C

DEPARTMENT
R&D

Foxconn eMS Inc.

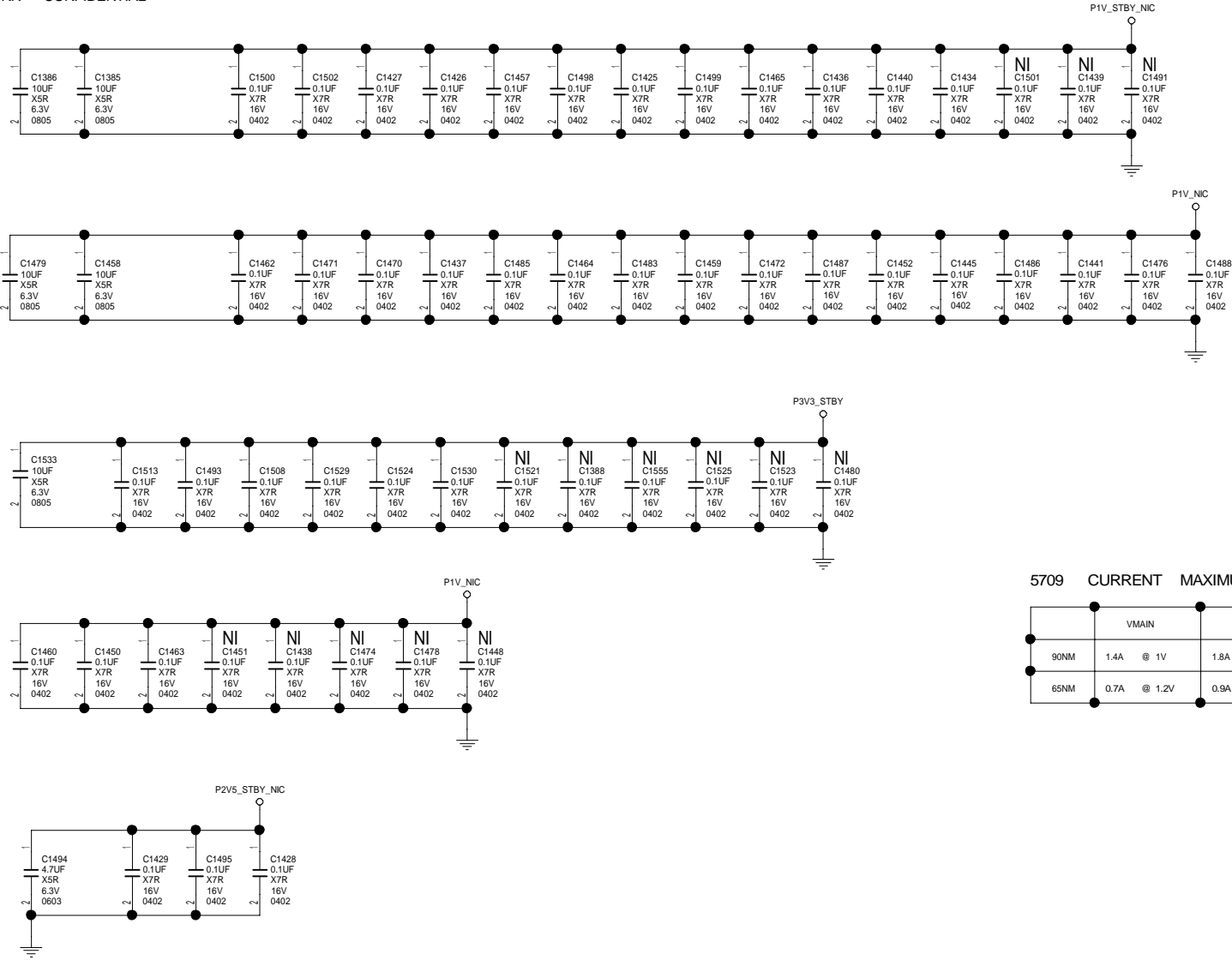
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 179 OF 247

FOXCONN CONFIDENTIAL



5709 CURRENT MAXIMUMS

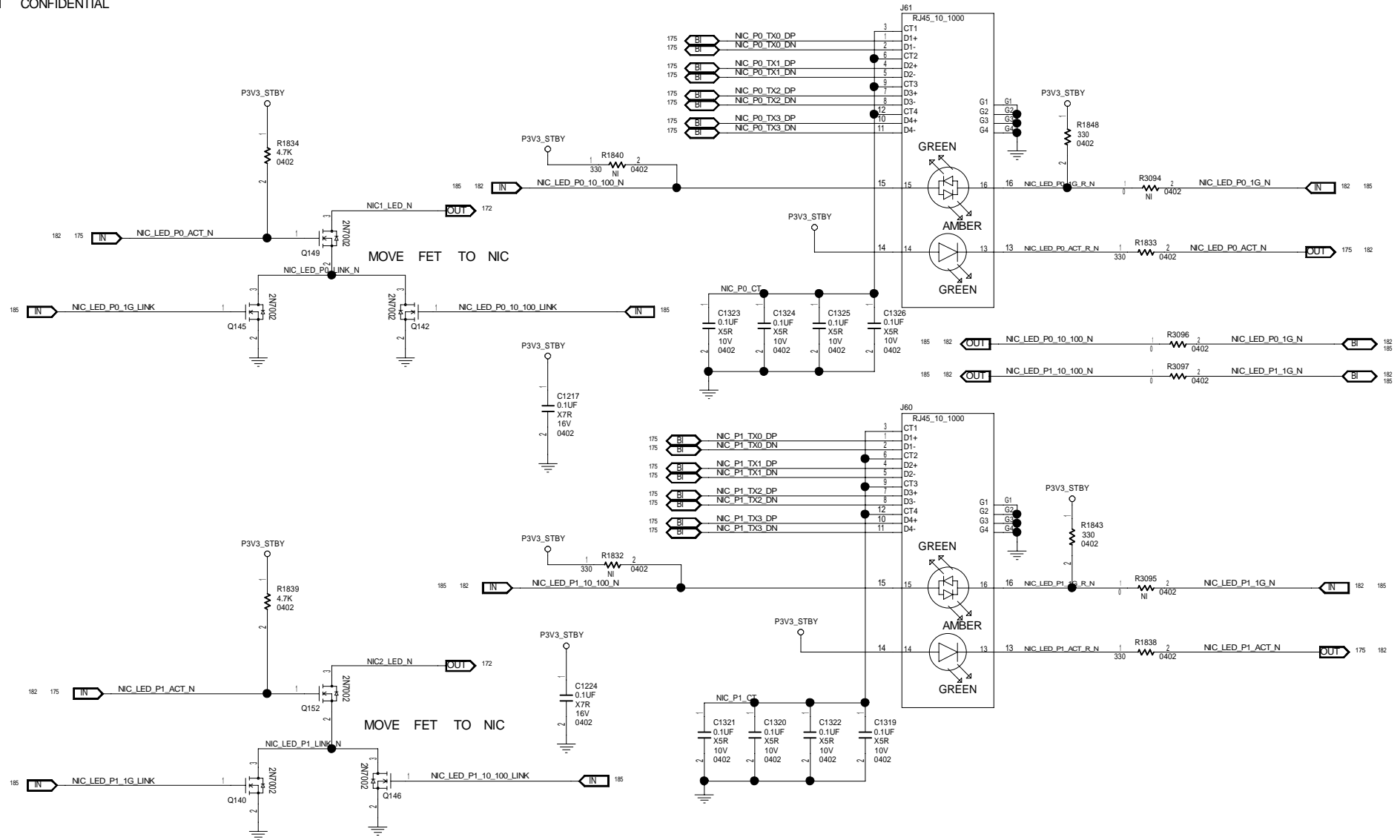
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90NM	1.4A	@ 1V	1.8A	@ 1V	113MA	208MA
65NM	0.7A	@ 1.2V	0.9A	@ 1.2V	57MA	104MA

BCM5709C

Tue Jan 27 14:45:23 2009

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA		REV B
		SCALE:	DO NOT SCALE DRAWING	SHEET 180	OF 247

FOXCONN CONFIDENTIAL



BCM5709C

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 182 OF 247

Tue Jan 27 14:45:24 2009



SHEET 183 OF 247

4

3

2

1

FOXCONN CONFIDENTIAL

B

B

A

A

Tue Apr 29 10:24:56 2008

BLANK

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
B

DOCUMENT NUMBER
AMANDA

REV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 184 OF 247

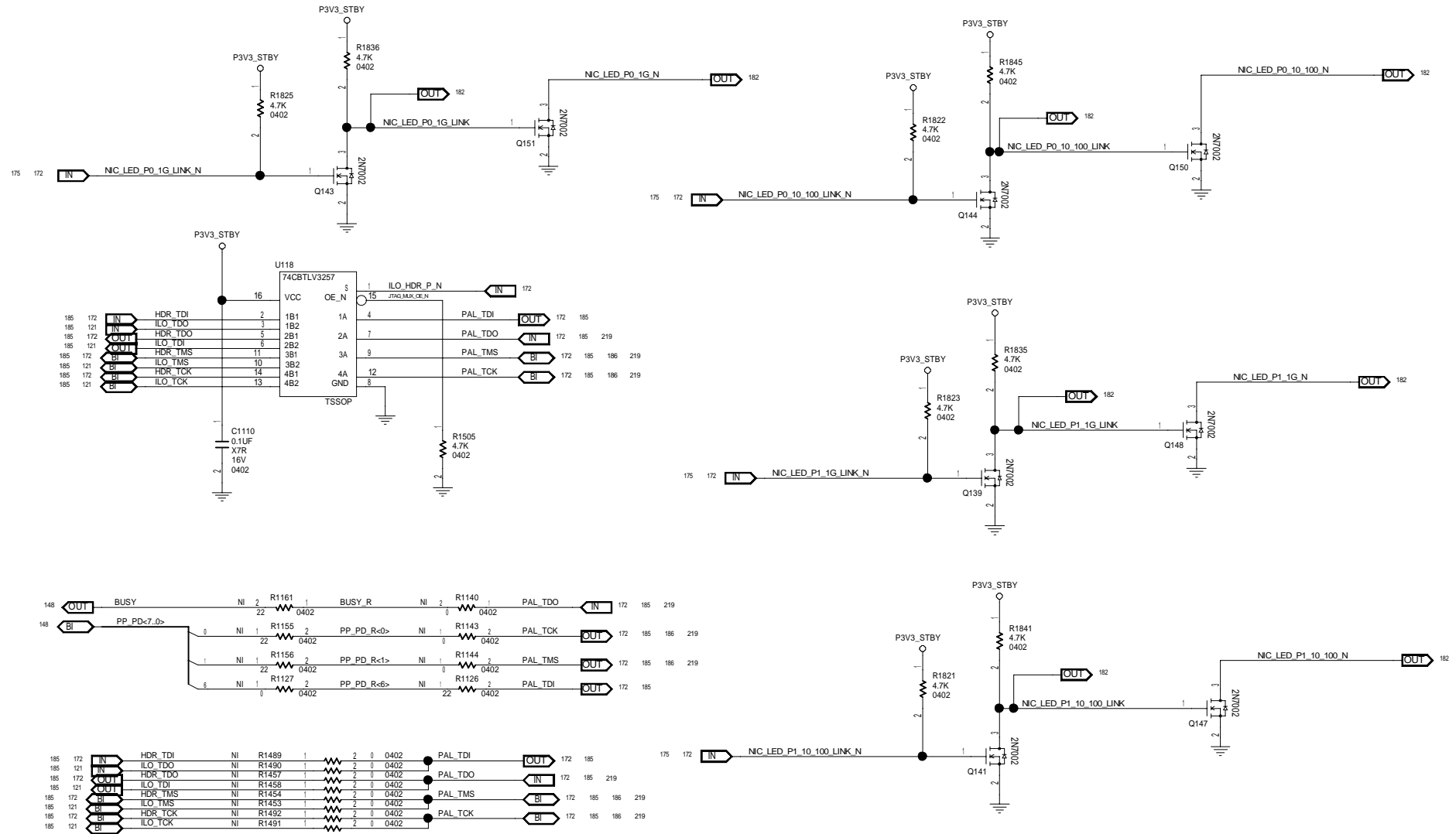
4

3

2

1

FOXCONN CONFIDENTIAL



JTAG MISC

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

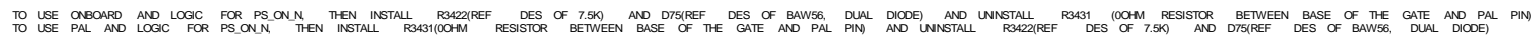
SCALE:

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SHEET 185 OF 247

Tue Jan 27 14:45:25 2009

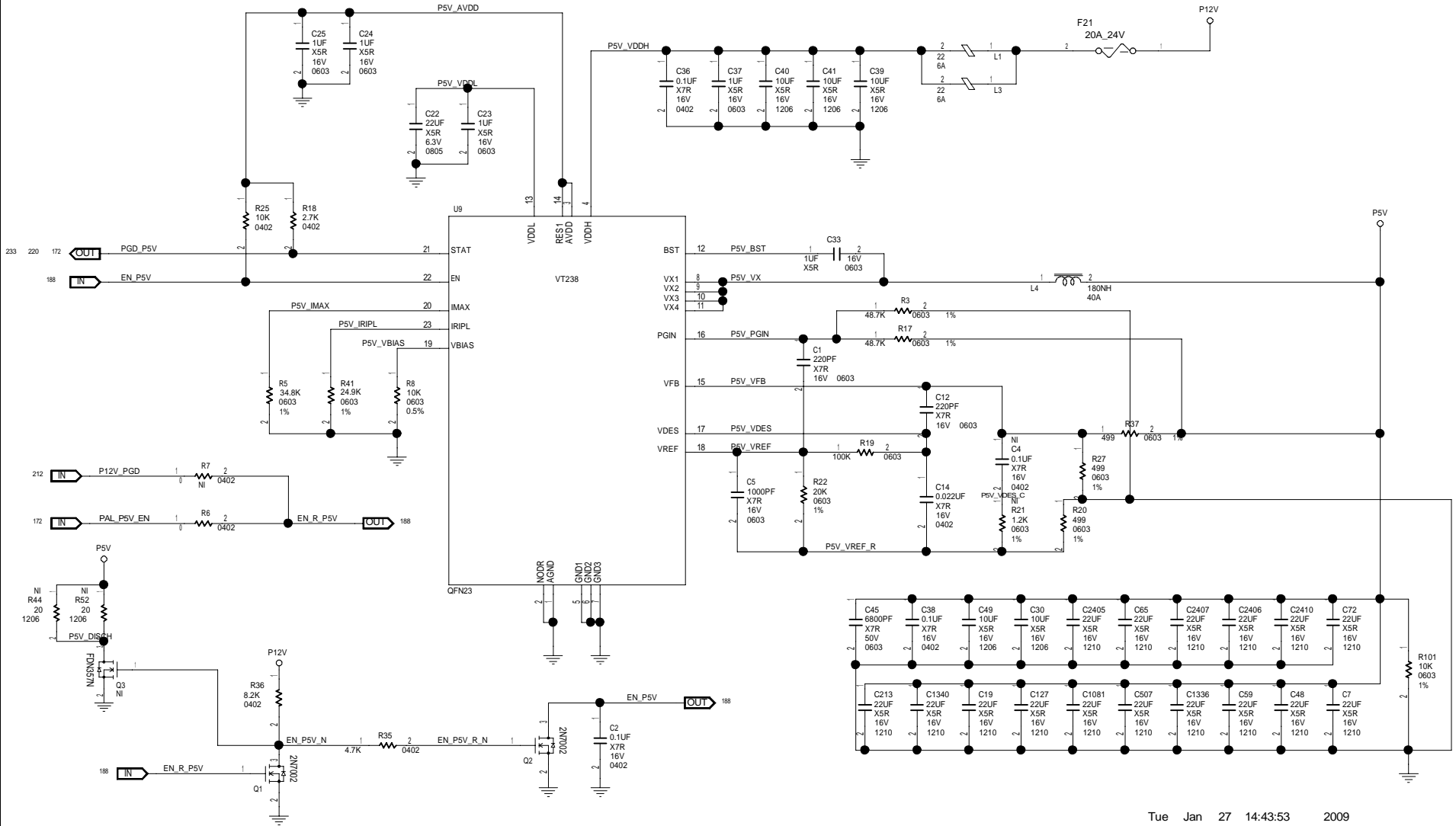




P12V-P12V_STBY	SWITCH
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DEPARTMENT R&D	Foxconn 8807 Fallbrook Houston, Texas (281) 668-1668	eMS Inc. Drive 77064	SIZE B	DOCUMENT NUMBER AMANDA			REV B
			SCALE:	DO NOT SCALE DRAWING		SHEET 187 OF 247	

FOXCONN CONFIDENTIAL



5V REG (25A)

Tue Jan 27 14:43:53 2009

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:		DO NOT SCALE DRAWING		
		SHEET 188 OF 247		

DEPARTMENT
R&D

SIZE
B

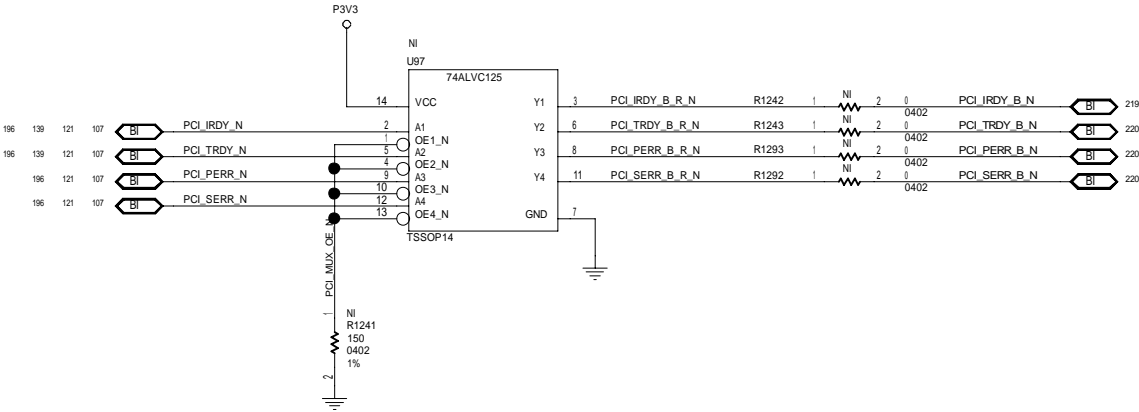
DOCUMENT NUMBER	AMANDA
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REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 189 OF 247
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FOXCONN CONFIDENTIAL

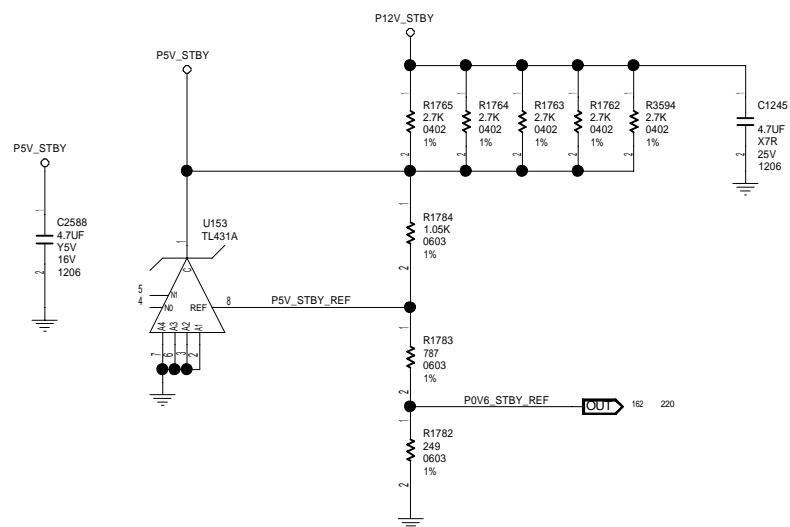
PLACE THE 125 WITH NO STUB TO PCI BUS



Tue Jan 27 14:45:26 2009

MISC

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 190	OF 247	



5V STBY REG (0.2A)

Tue Jan 27 14:45:27 2009

DEPARTMENT R&D	Foxconn 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA		REV B
		SCALE:	DO NOT SCALE DRAWING	SHEET 191 OF 247	



Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

DOCUMENT NUMBER
AMANDA

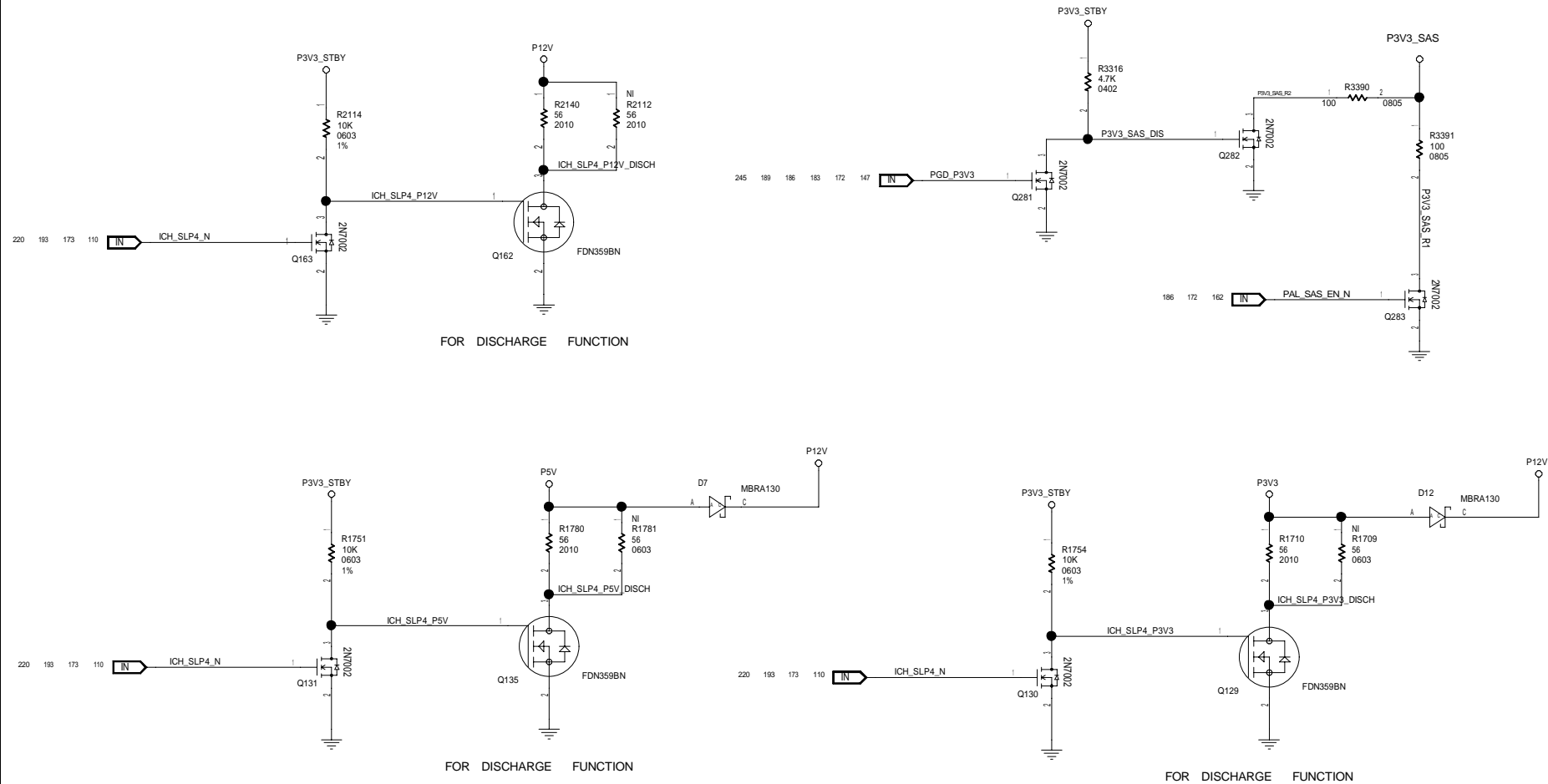
REV
B

SCALE:

DO NOT SCALE DRAWING	SHEET 192 OF 247
----------------------	------------------

OF 247

FOXCONN CONFIDENTIAL



RESIDUAL VOLTAGE

Tue Jan 27 14:45:28 2009

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

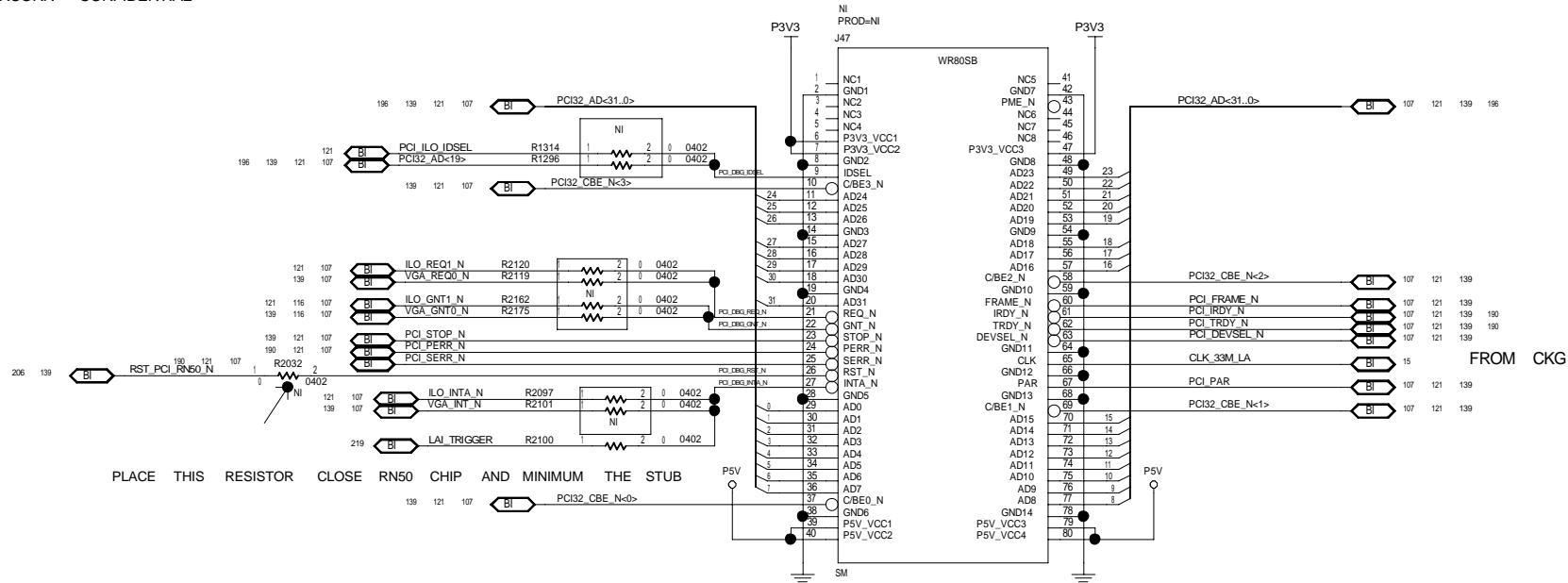
DO NOT SCALE DRAWING

SHEET 193 OF 247

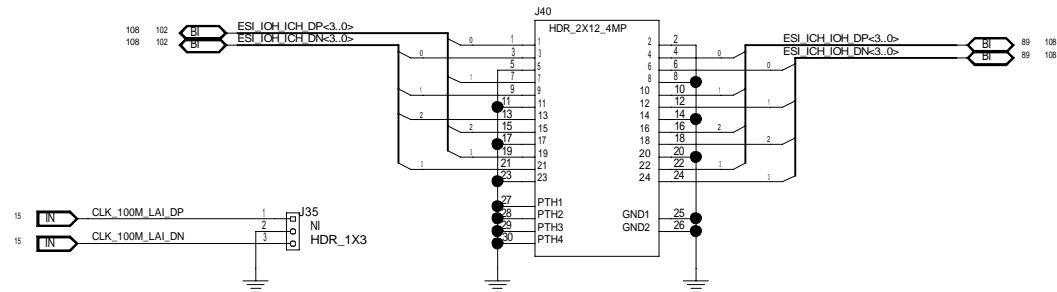




FOXCONN CONFIDENTIAL



FOR IOH TO IOH USE



Tue Jan 27 14:45:30 2009

PCI / ESI DEBUG CONNECTOR

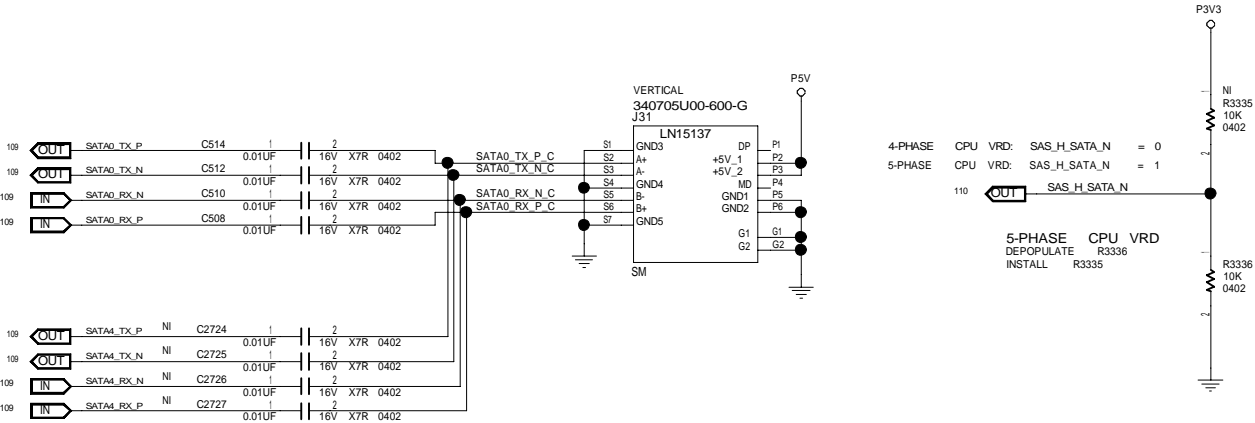
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 196 OF 247

FOXCONN CONFIDENTIAL

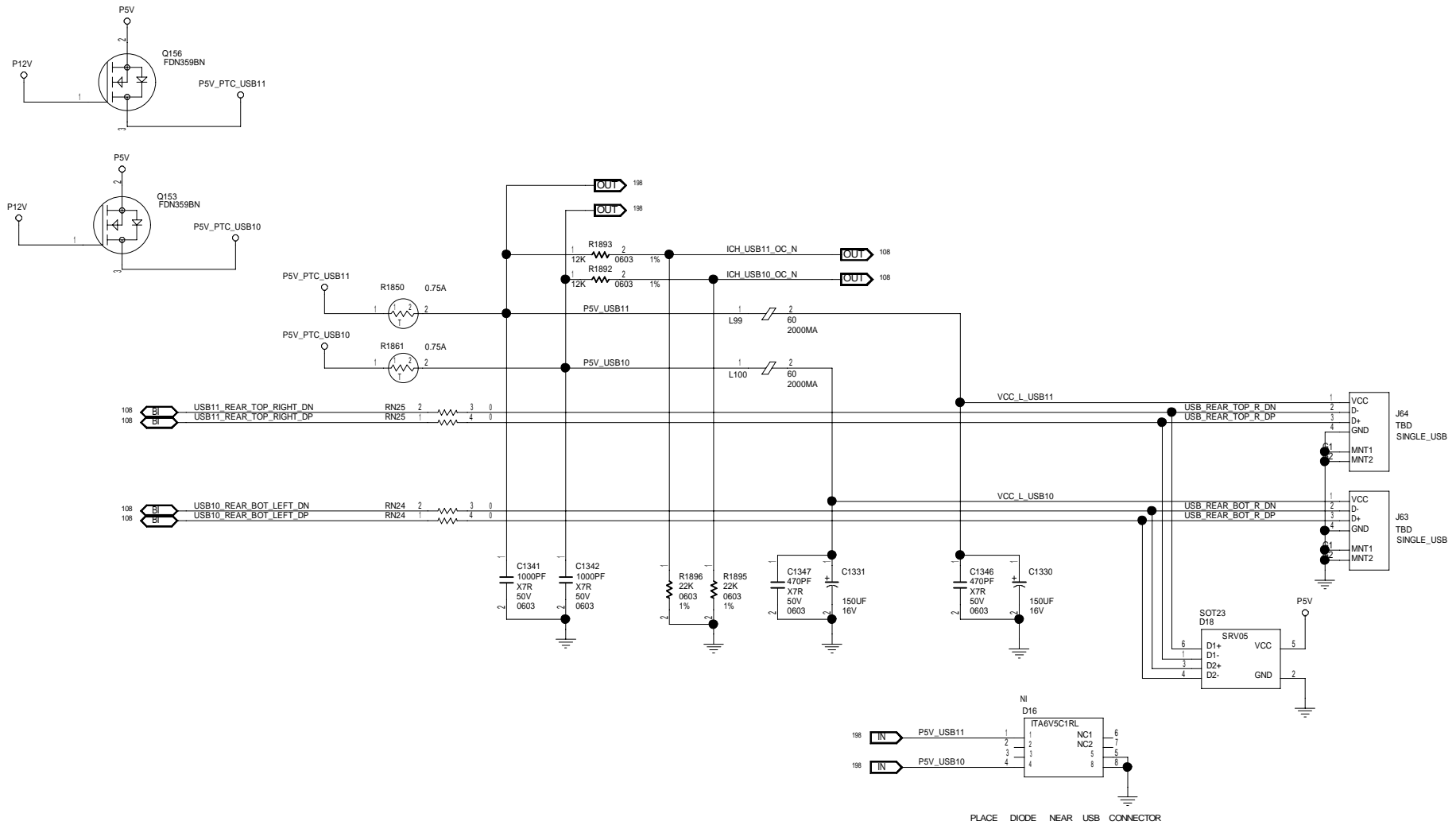


SATA ODD

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 197	OF 247	

Wed Mar 04 10:06:53 2009

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:31 2009

USB REAR

DEPARTMENT
R&D

Foxconn eMS Inc.

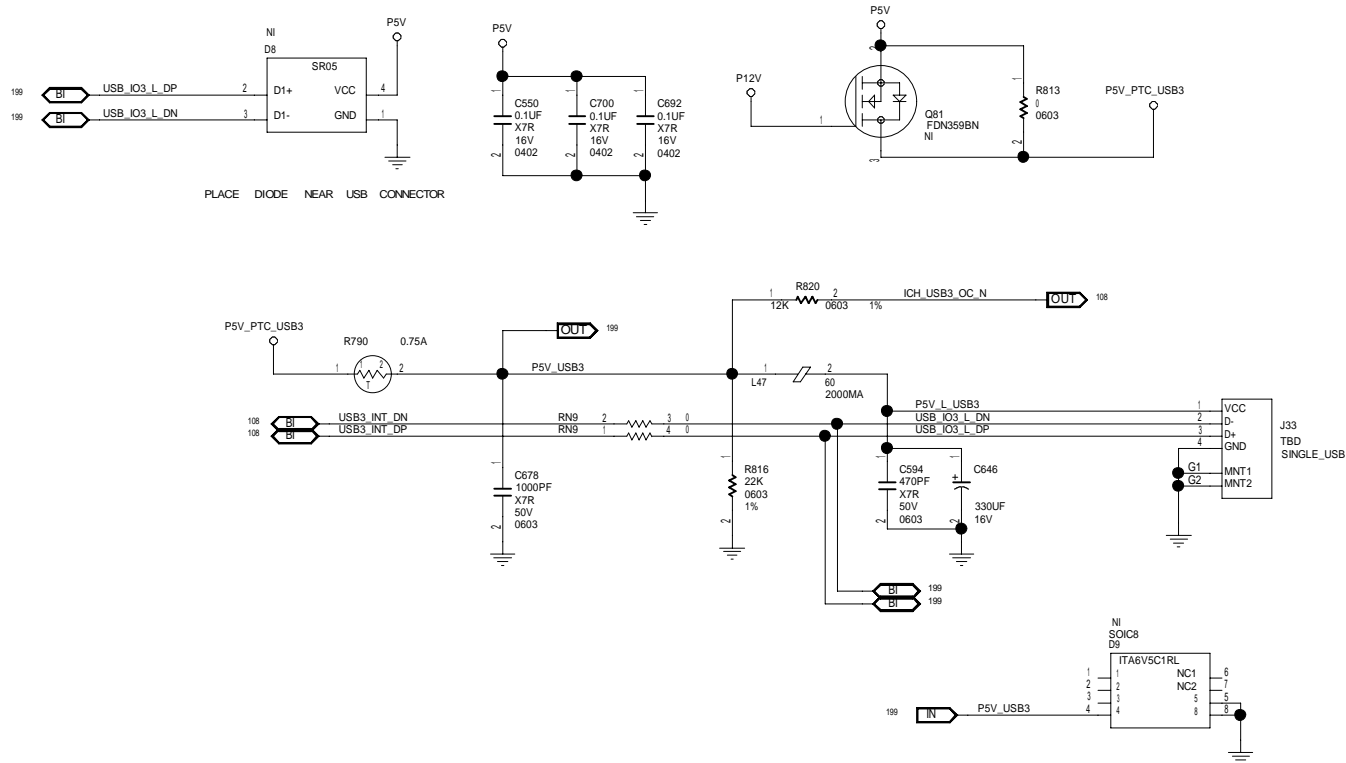
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 198 OF 247

FOXCONN CONFIDENTIAL



USB INTERNAL

Tue Jan 27 14:45:31 2009

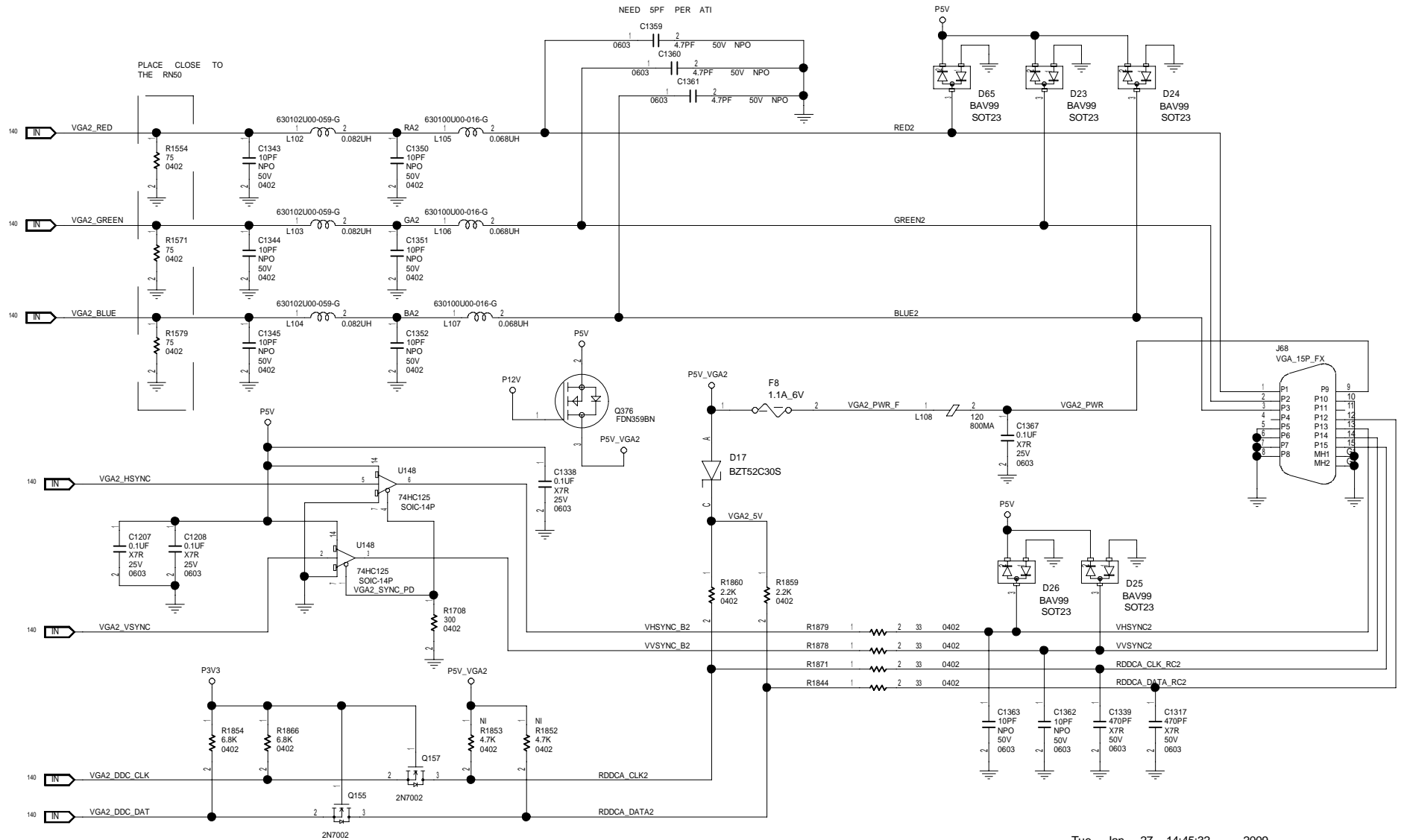
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 199 OF 247

FOXCONN CONFIDENTIAL



REAR VGA PORT

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
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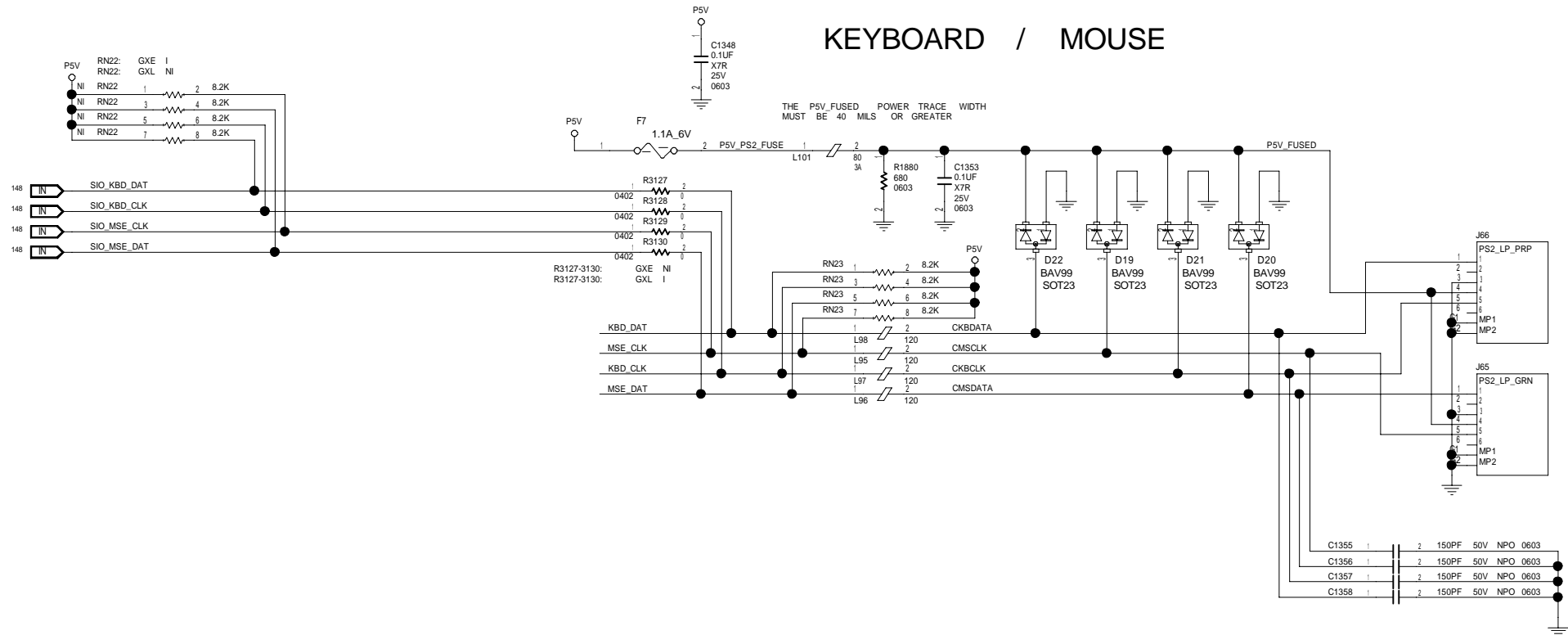
SCALE:

DO NOT SCALE DRAWING

SHEET 200 OF 247

Tue Jan 27 14:45:32 2009

FOXCONN CONFIDENTIAL



KEYBOARD / MOUSE

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
BDOCUMENT NUMBER
AMANDAREV
B

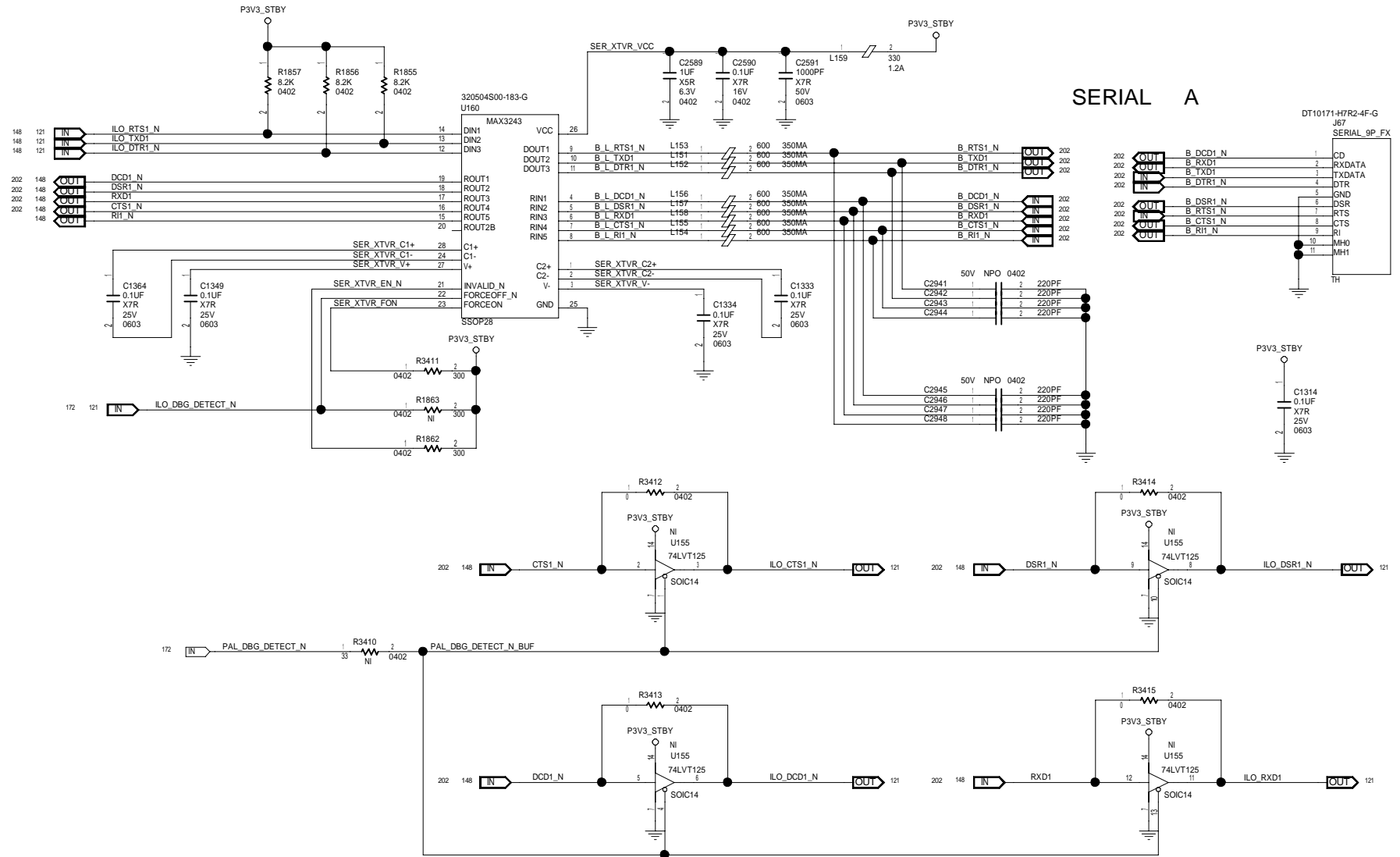
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DO NOT SCALE DRAWING

SHEET 201 OF 247

Tue Jan 27 14:45:32 2009

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:33 2009

SERIAL PORT

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 202 OF 247

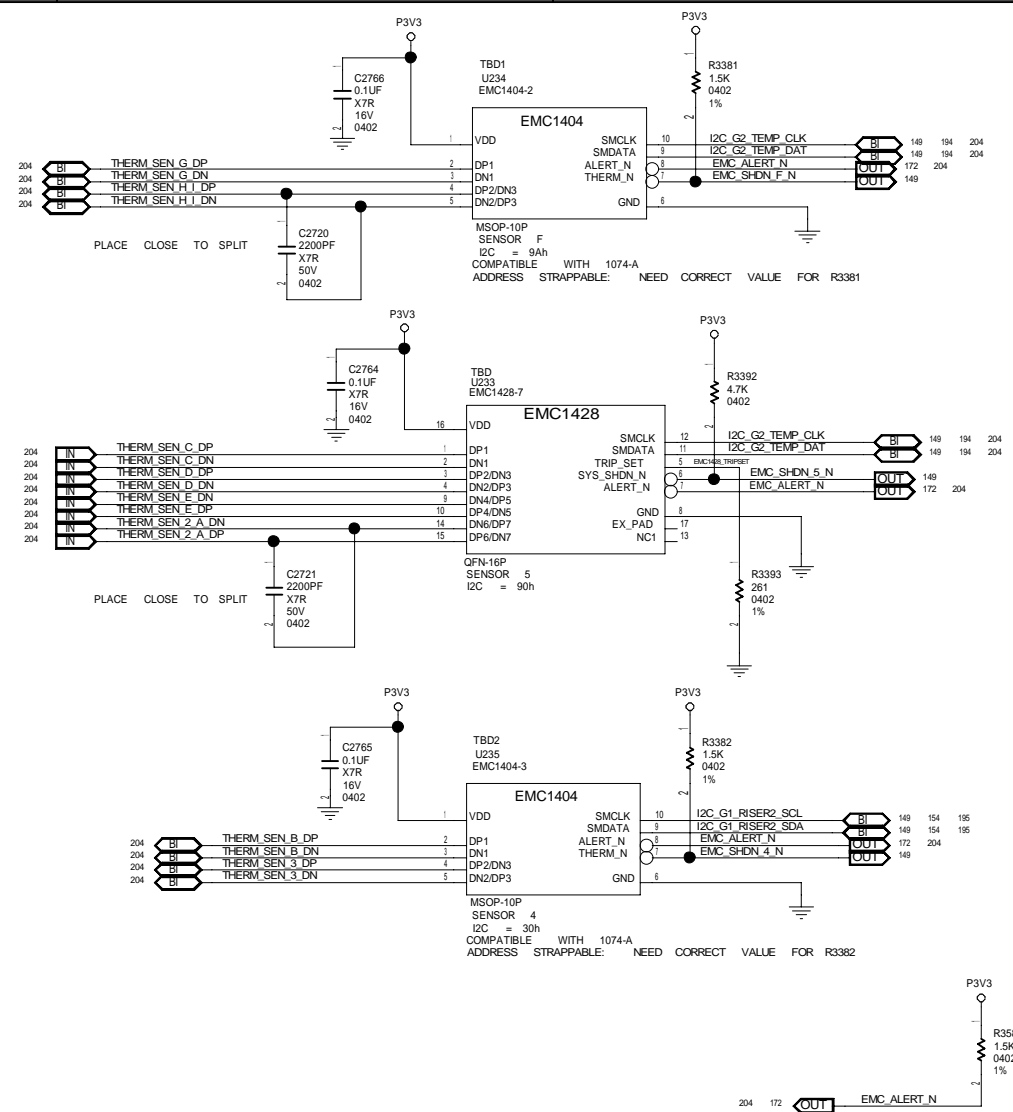
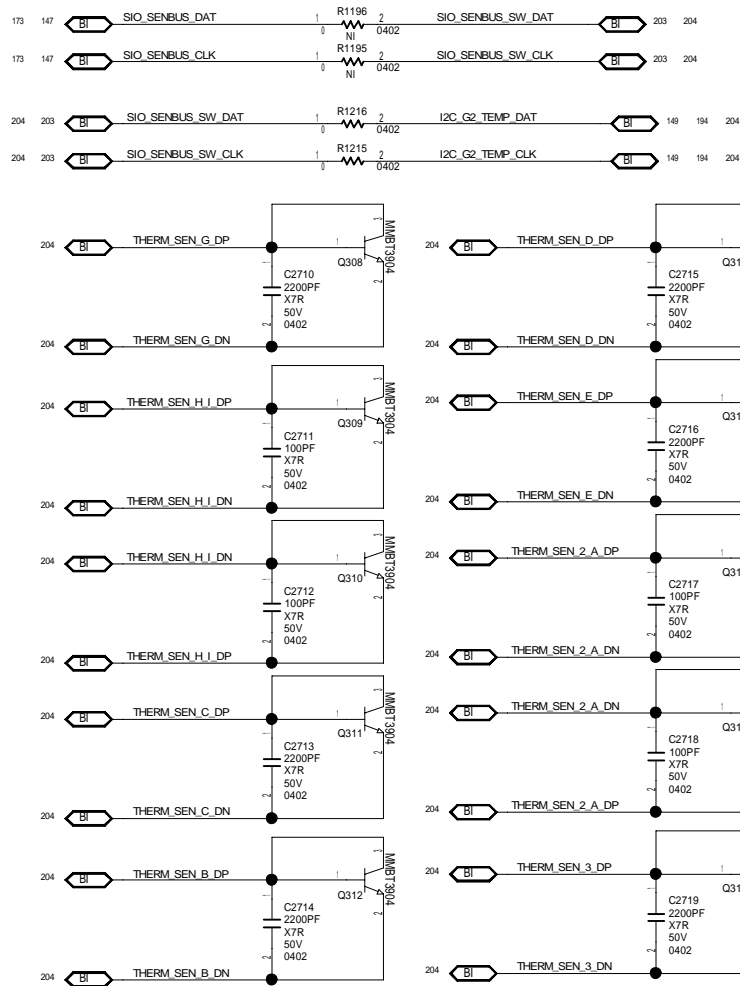


Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

REV
B

SHEET 203 OF 247

FOXCONN CONFIDENTIAL



TEMP SENSORS

Tue Jan 27 14:45:34 2009

DEPARTMENT
R&D

Foxconn eMS Inc.

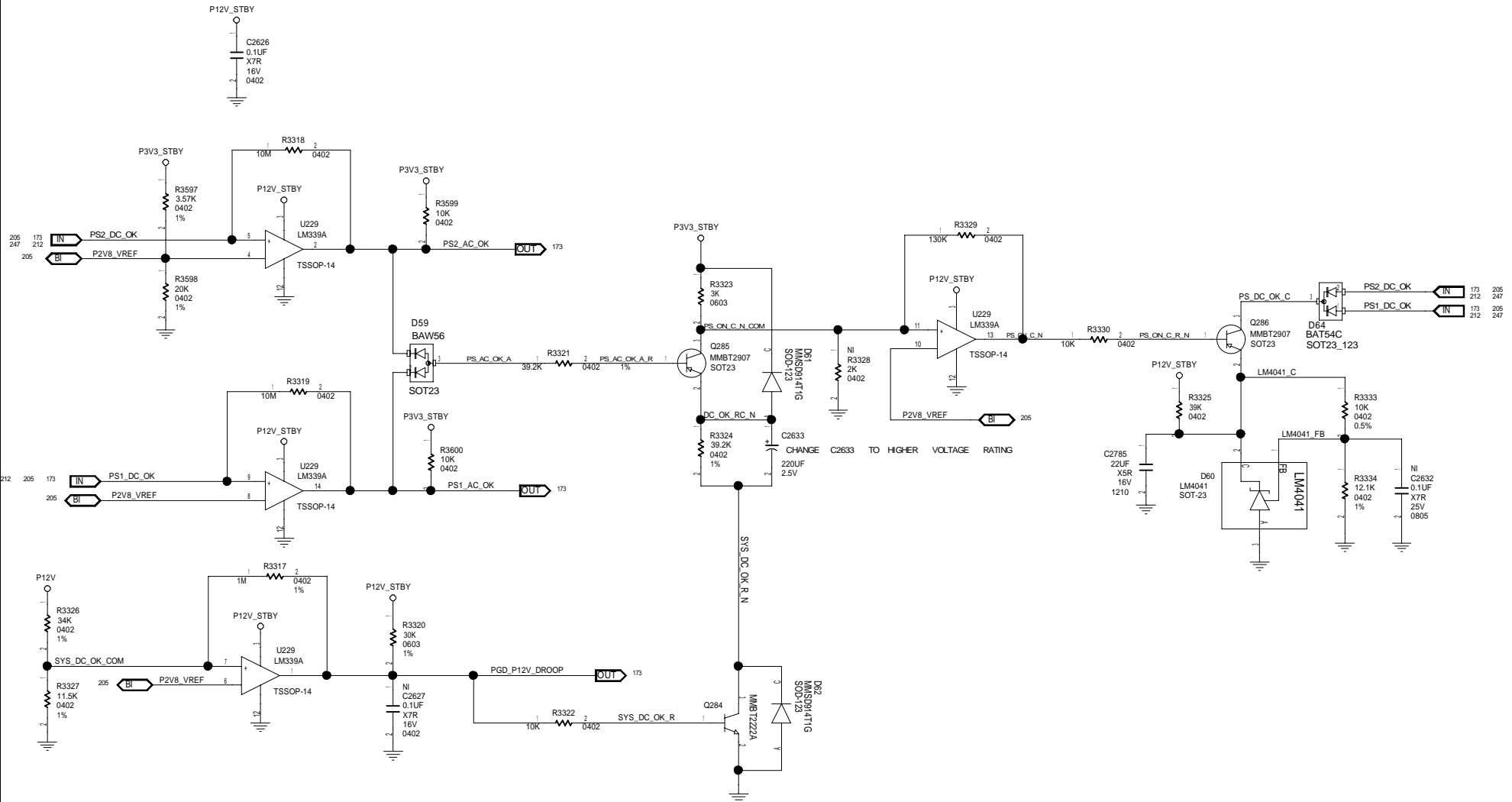
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 204 OF 247

FOXCONN CONFIDENTIAL



PS CONTROL

DEPARTMENT
R&D

Foxconn eMS Inc.
 8807 Fallbrook Drive
 Houston, Texas 77064
 (281) 668-1668

SIZE
BDOCUMENT NUMBER
AMANDAREV
B

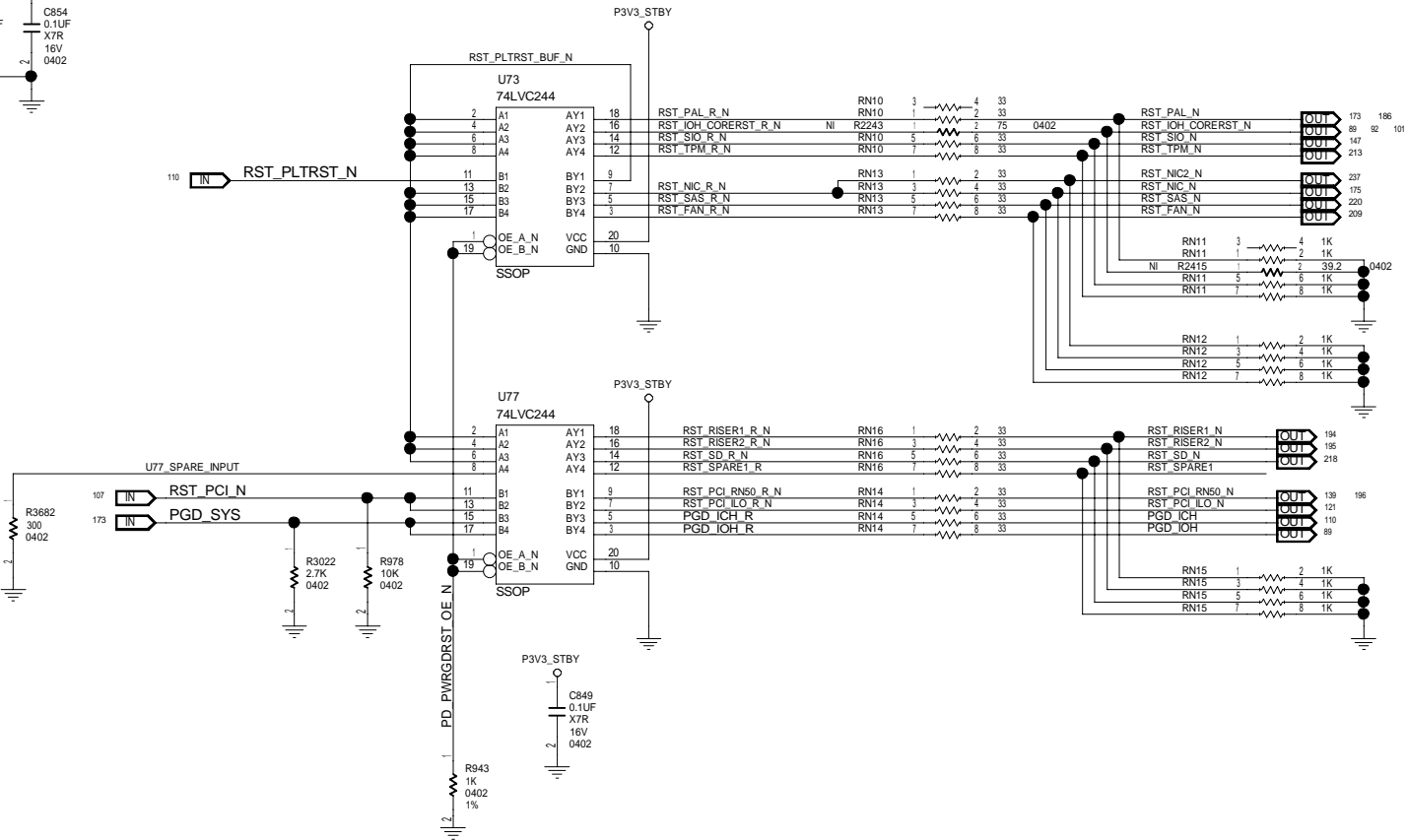
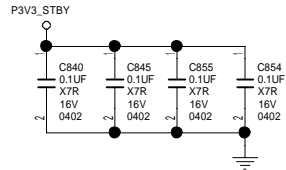
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SHEET 205 OF 247

Tue Jan 27 14:45:34 2009

FOXCONN CONFIDENTIAL



RESET BUFFERS

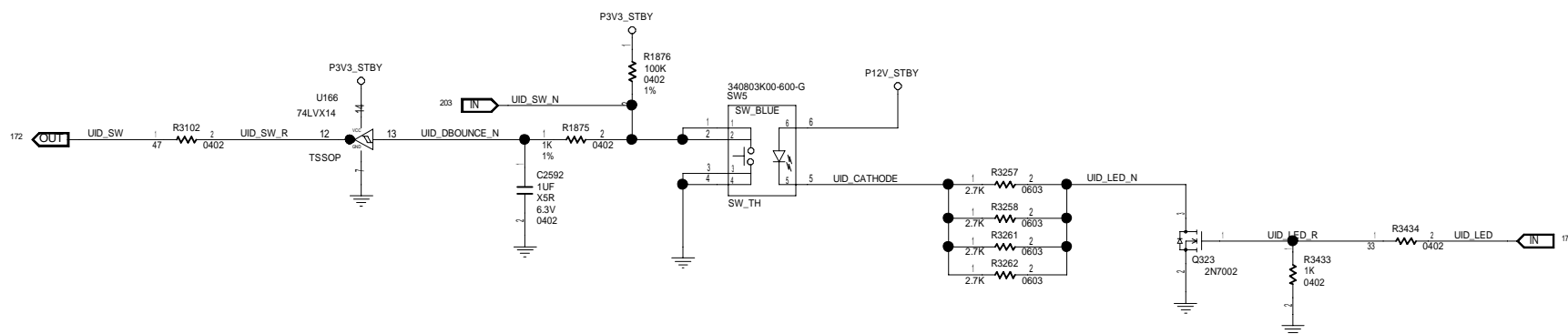
Tue Jan 27 14:45:34 2009

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING SHEET 206 OF 247

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Tue Jan 27 14:45:35 2009

UID

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
B

DOCUMENT NUMBER
AMANDA

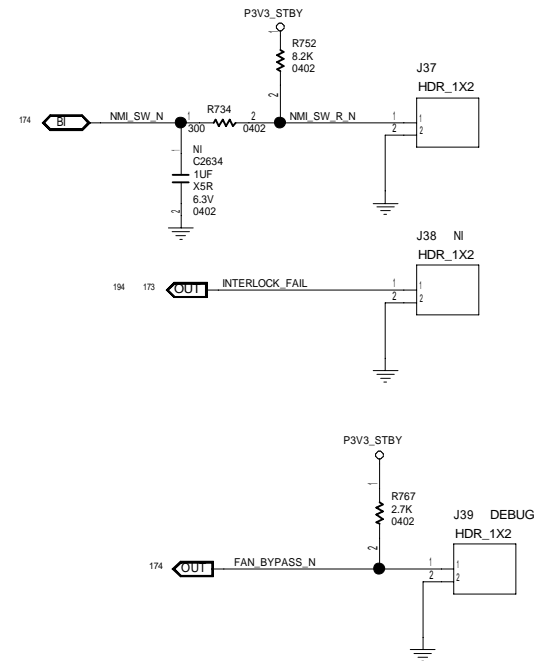
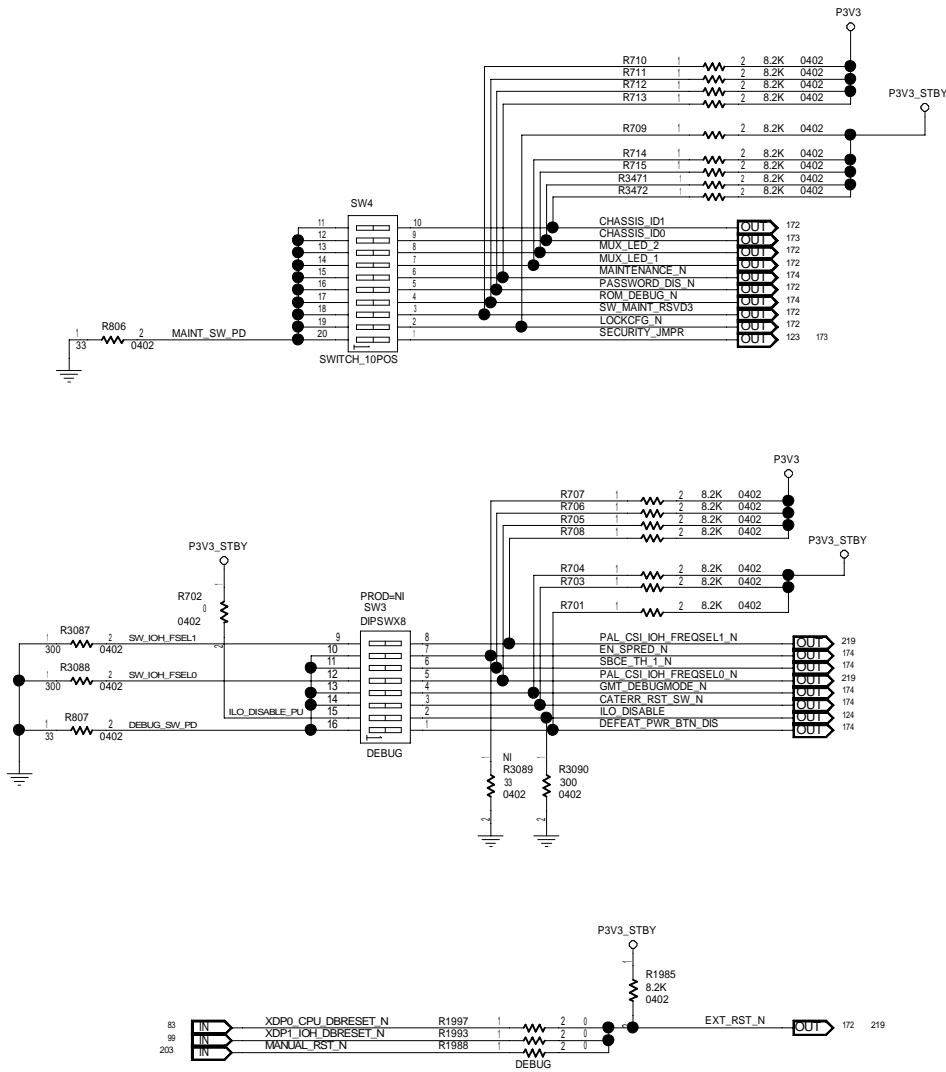
REV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 207 OF 247

FOXCONN CONFIDENTIAL



DIP SWITCHES

DEPARTMENT
R&D

Foxconn eMS Inc.
 8807 Fallbrook Drive
 Houston, Texas 77064
 (281) 668-1668

SIZE
BDOCUMENT NUMBER
AMANDAREV
B

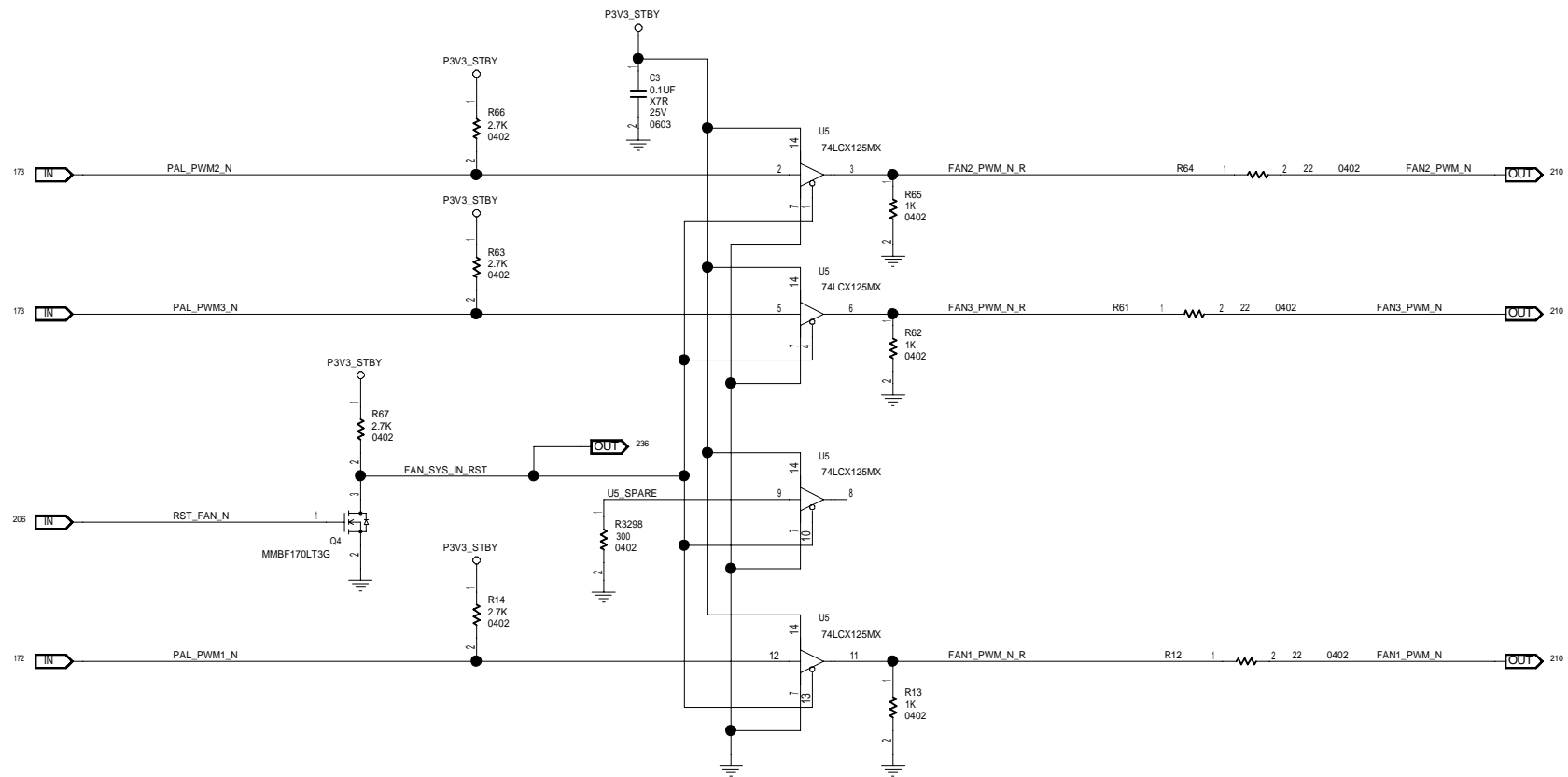
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SHEET 208 OF 247

Tue Jan 27 14:45:35 2009

FOXCONN CONFIDENTIAL



FANS - PWM

Tue Jan 27 14:45:36 2009

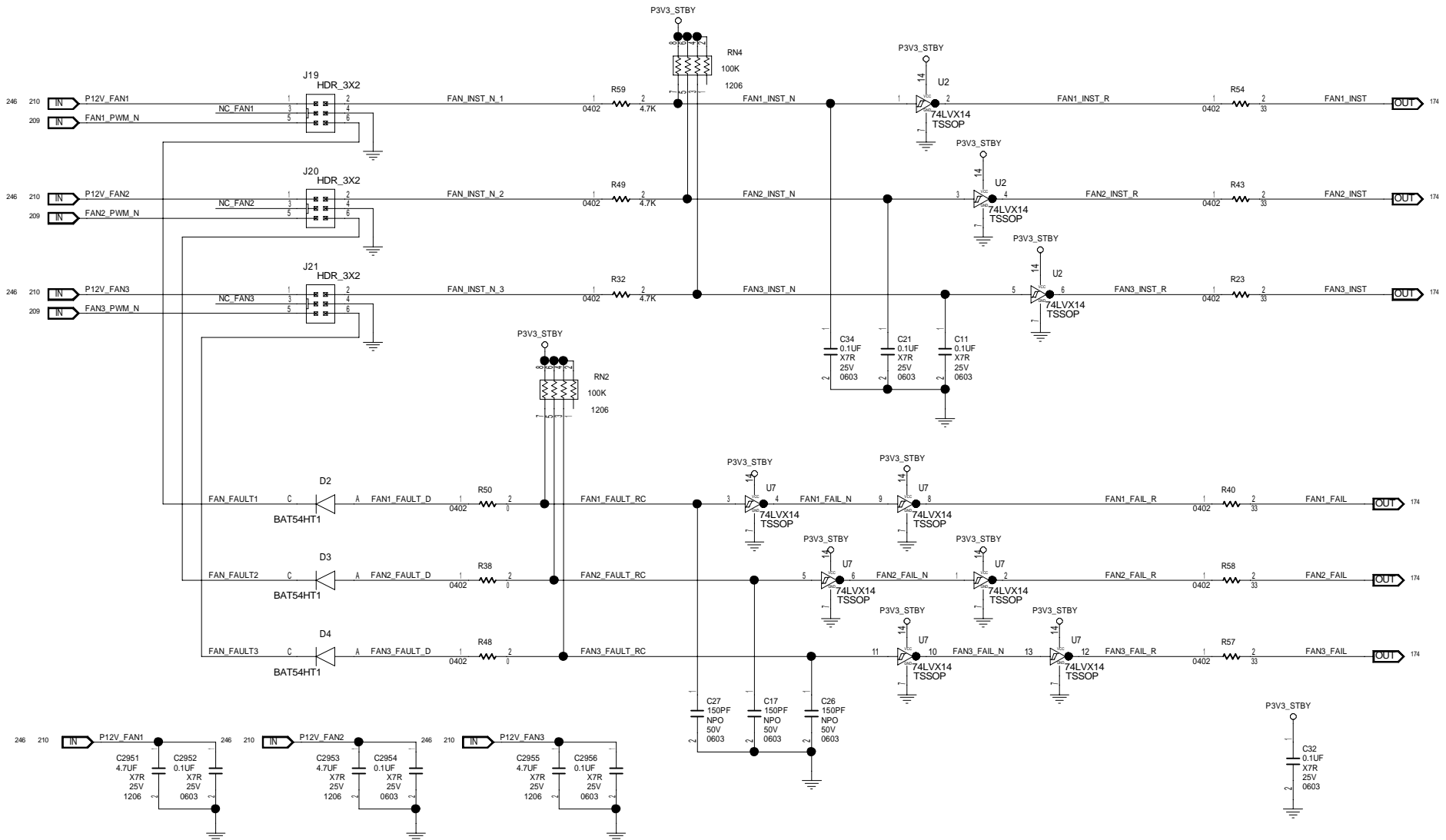
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 209 OF 247

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:36 2009

FANS - CONNECTORS 1-3

DEPARTMENT
R&D

Foxconn eMS Inc.

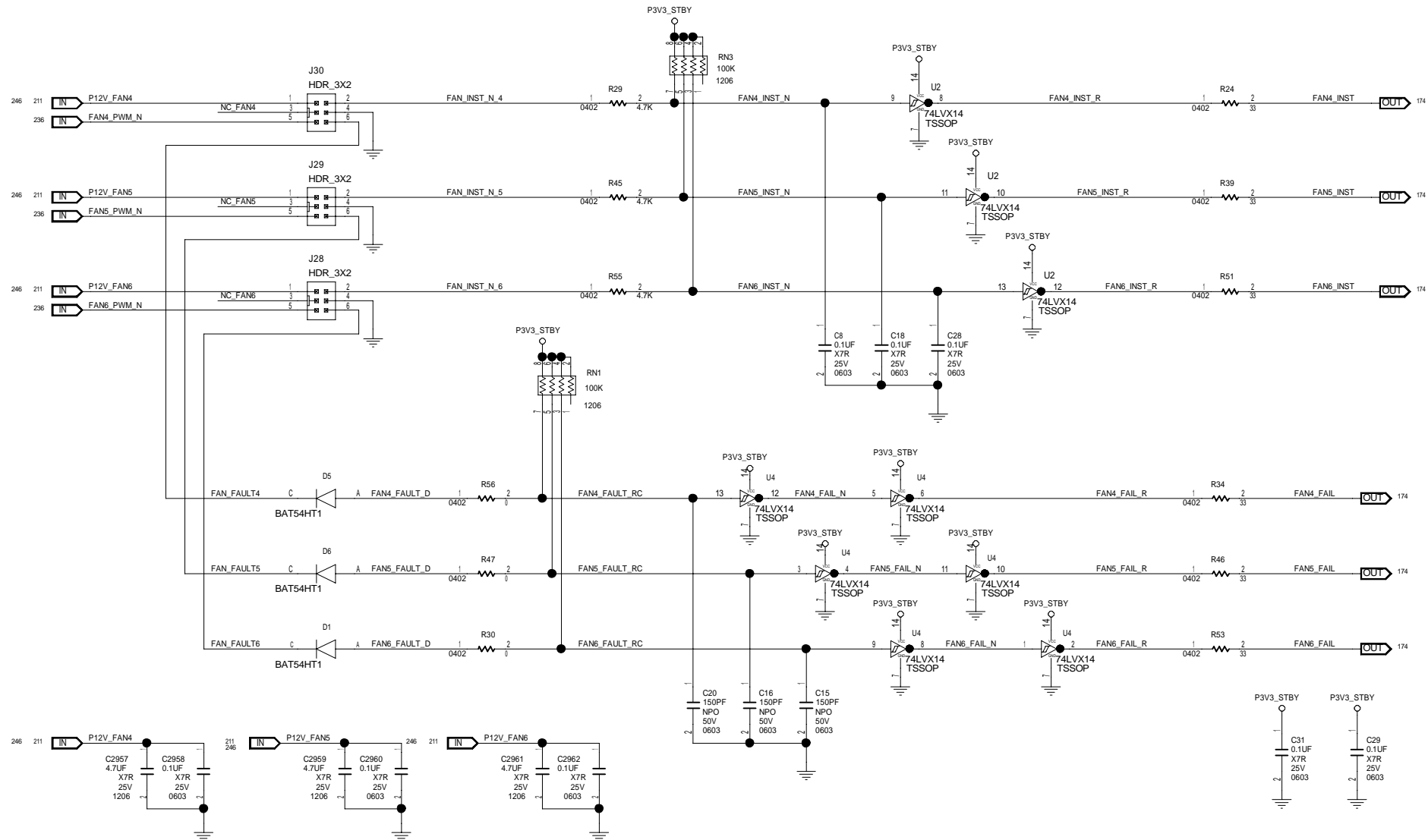
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 210 OF 247

FOXCONN CONFIDENTIAL



FANS - CONNECTORS 4-6

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
B

DOCUMENT NUMBER

AWANDA

REV
0.01

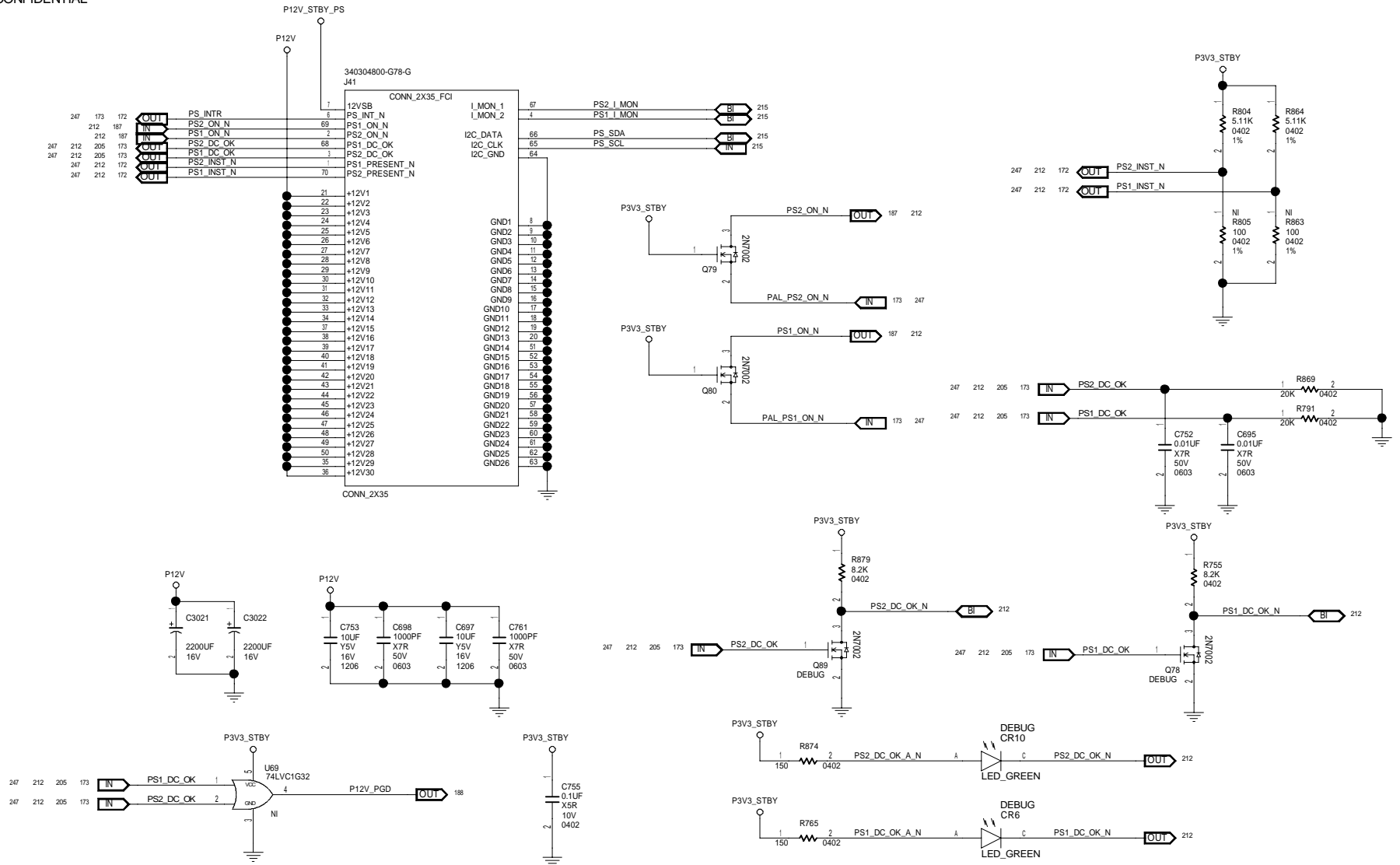
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SHEET 211 OF 247

Tue Jan 27 14:45:37 2009

FOXCONN CONFIDENTIAL



POWER INPUT CONNECTOR

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

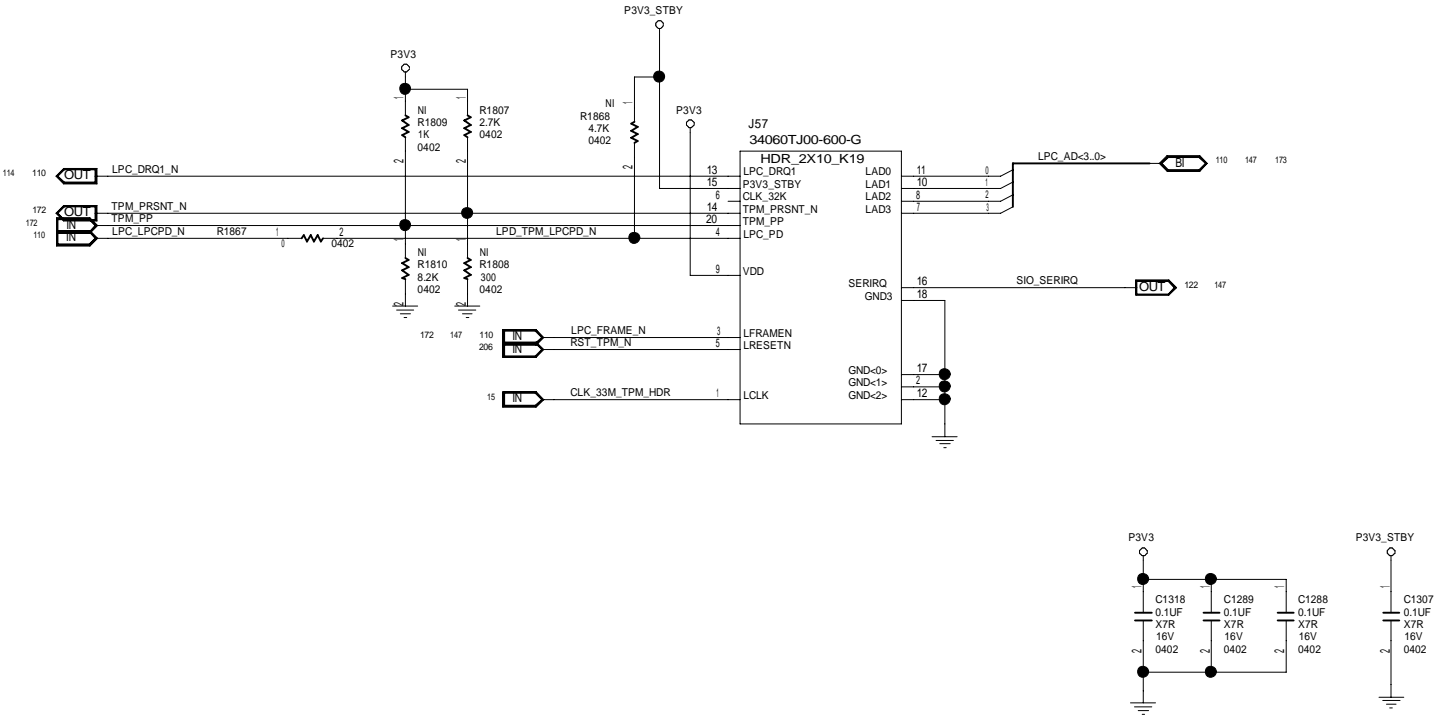
SCALE:

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SHEET 212 OF 247

Tue Jan 27 14:45:38 2009

FOXCONN CONFIDENTIAL

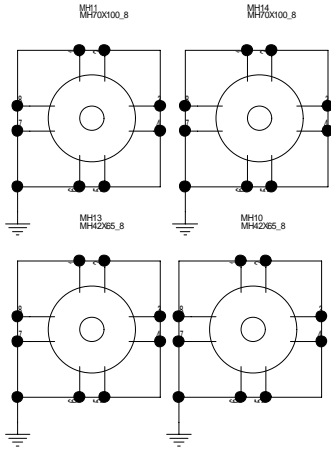


TPM HEADER

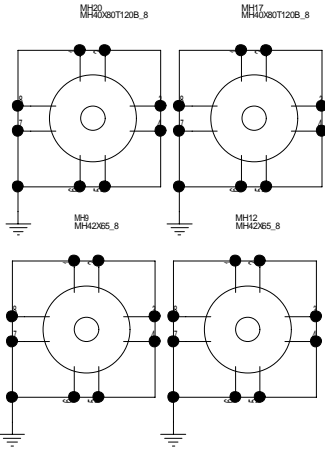
DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 213	OF 247	

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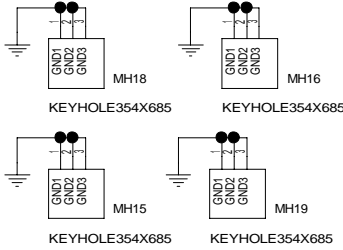
CPU AREA



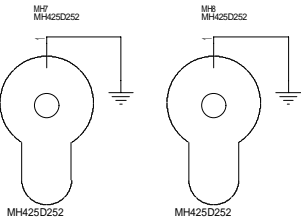
BOARD



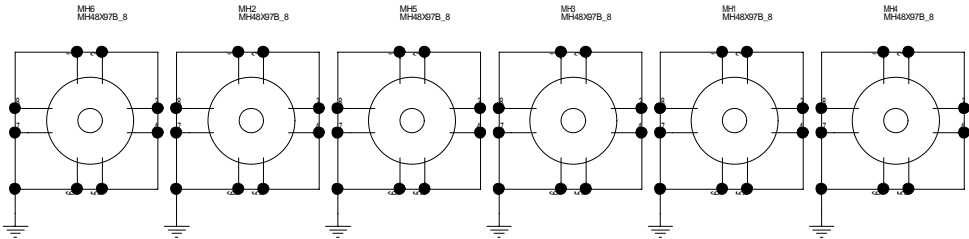
PS AREA



THUMB SCREW



FAN CAGE

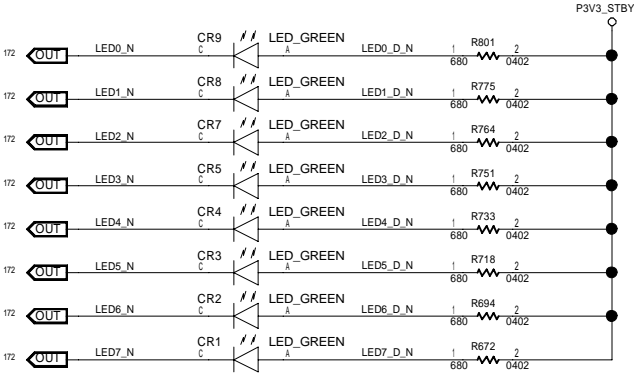


MECHANICAL

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:	DO NOT SCALE DRAWING	SHEET 214	OF 247	



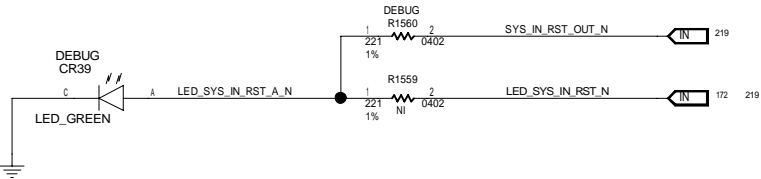
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PORT84 LEDS

DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	B	AMANDA	B
SCALE:	DO NOT SCALE DRAWING	SHEET 216	OF 247	

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LED STATES

Tue Jan 27 14:45:40 2009

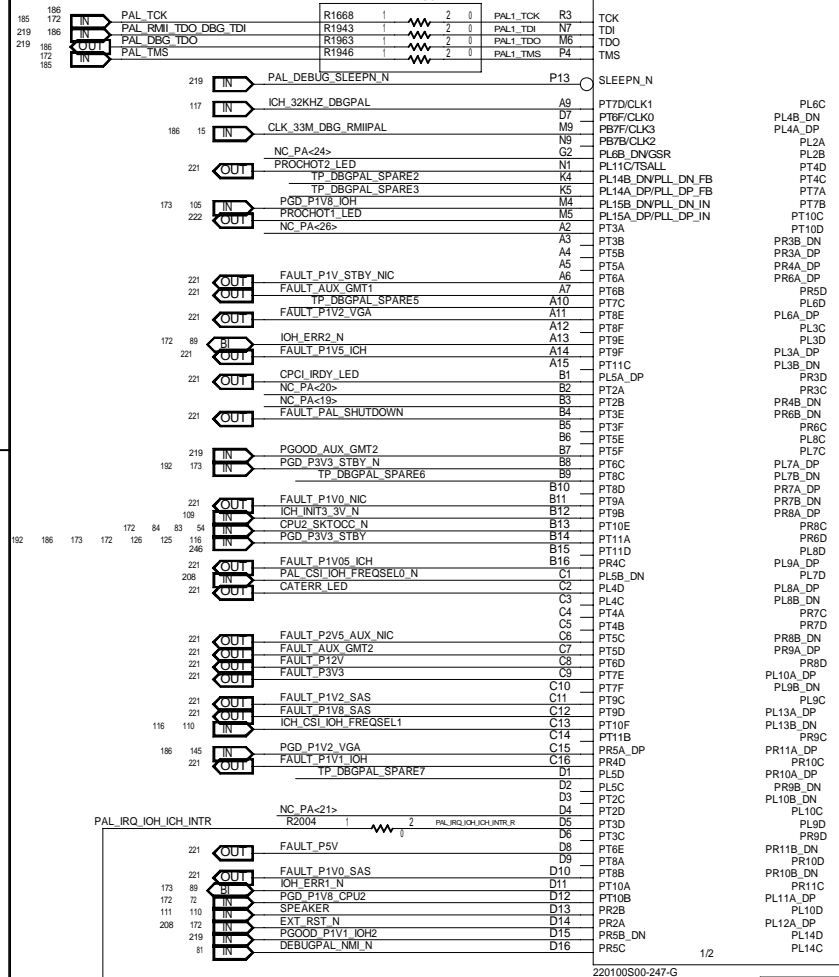
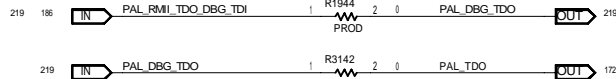
DEPARTMENT	Foxconn eMS Inc.	SIZE	DOCUMENT NUMBER	REV
R&D	8807 Fallbrook Drive Houston, Texas (281) 668-1668	B	AMANDA	B
SCALE:		DO NOT SCALE DRAWING		SHEET 217 OF 247



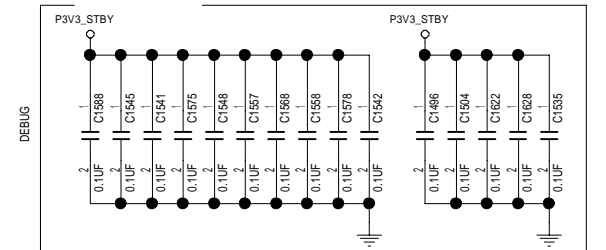
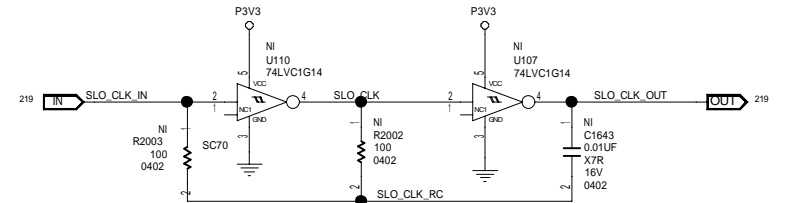
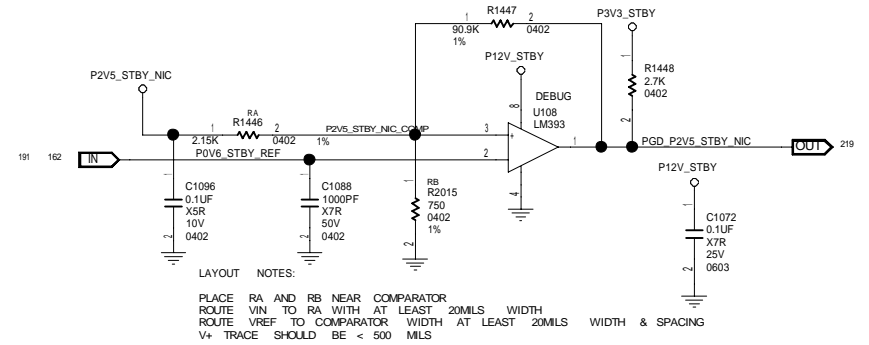
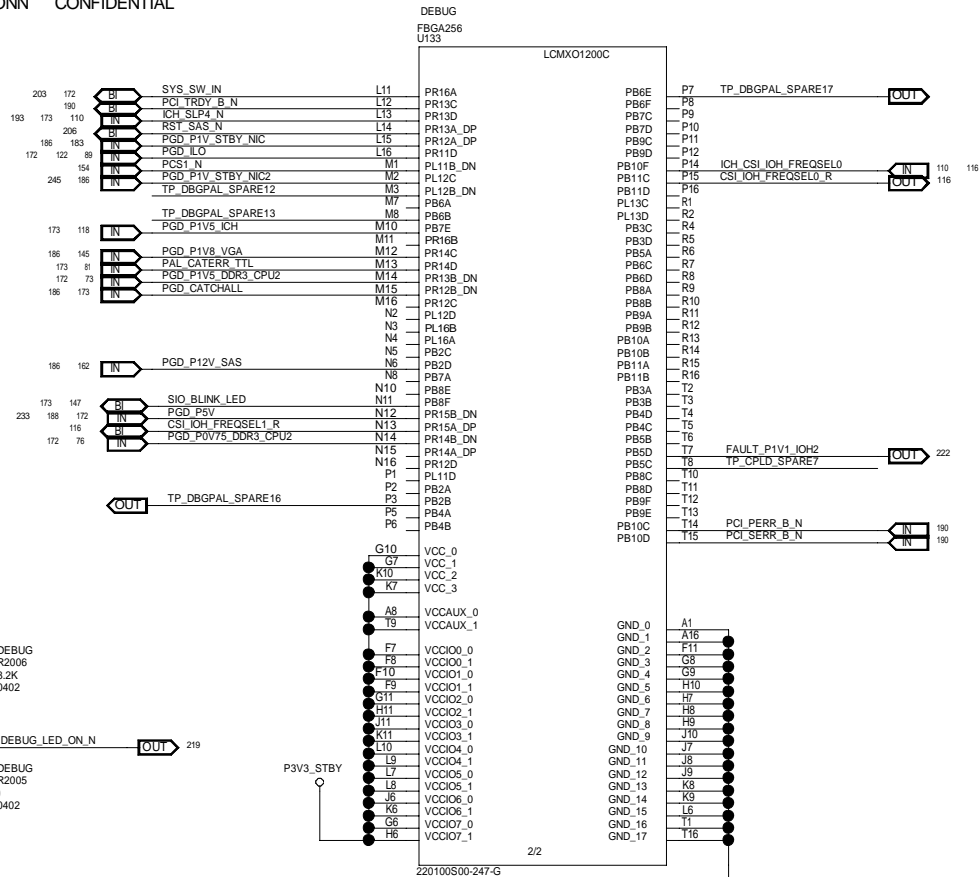
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RESERVED INSTALLATION WHEN DEBUG PAL IS REMOVED



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Tue Jan 27 14:45:42 2009

DEBUG PAL

DEPARTMENT
R&D

Foxconn eMS Inc.

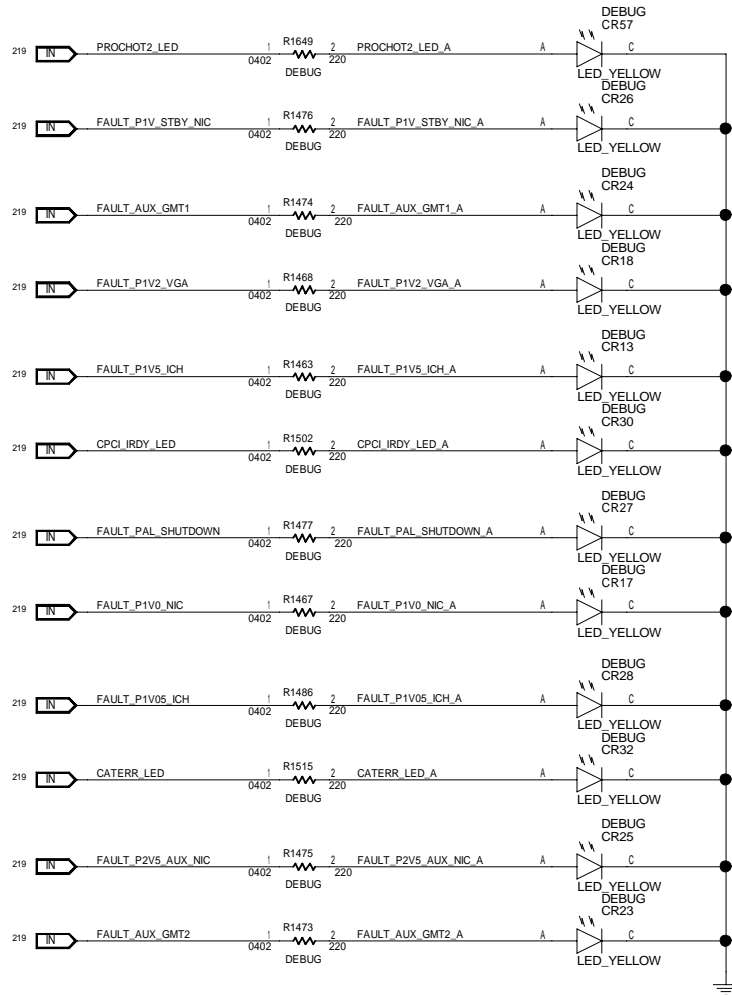
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 220 OF 247

FOXCONN CONFIDENTIAL



DEBUG PAL - LEDS

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 221 OF 247

Tue Jan 27 14:45:42 2009

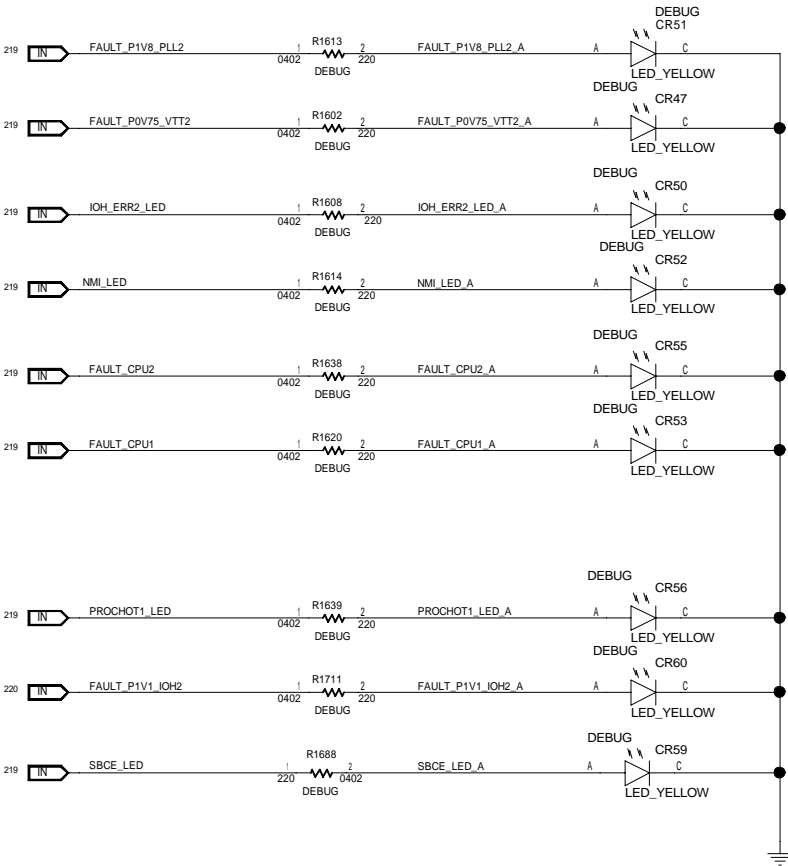
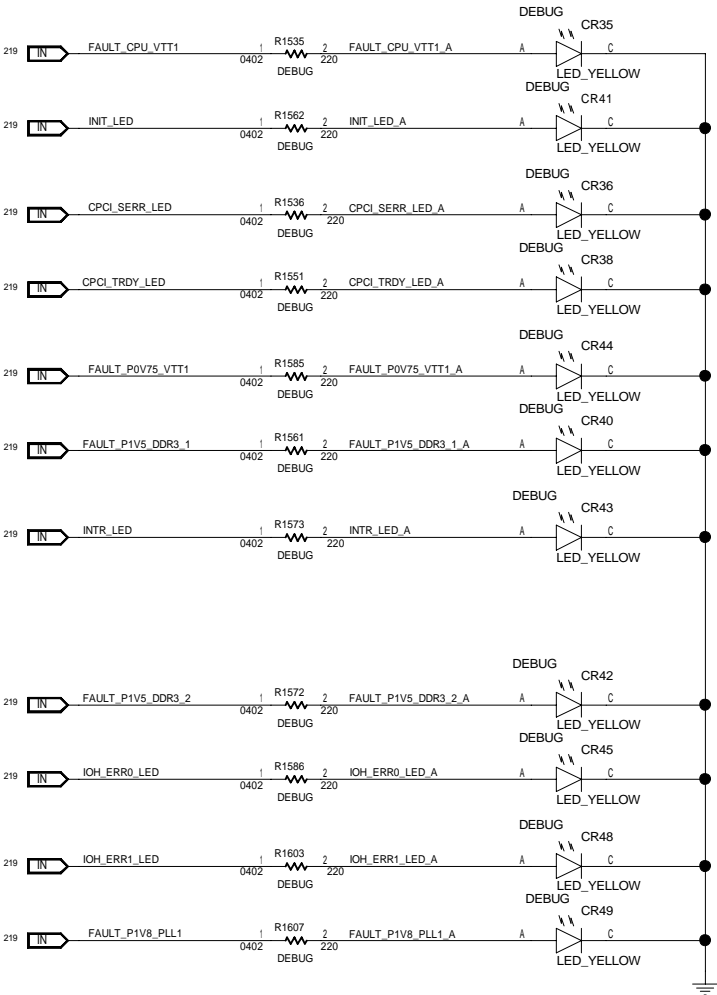
4

3

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1

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DEBUG PAL - LEDS

DEPARTMENT
R&D

Foxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668

SIZE
B

DOCUMENT NUMBER
AMANDA

REV
B

SCALE:

DO NOT SCALE DRAWING

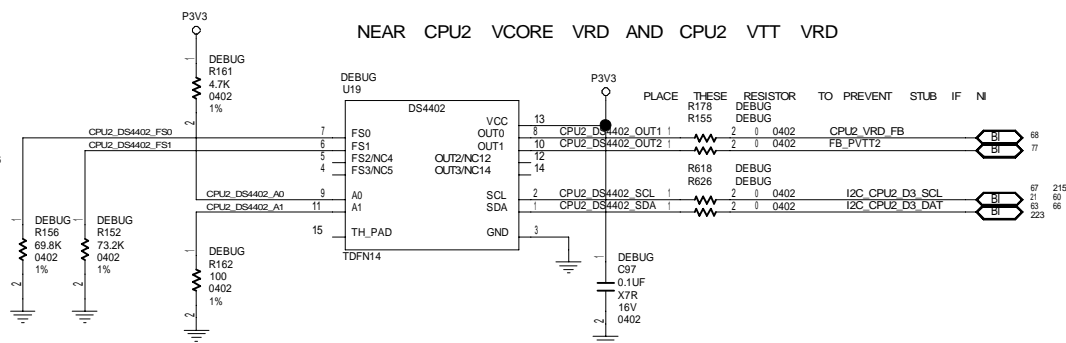
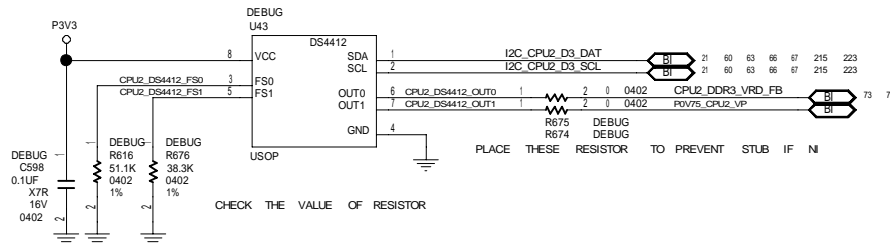
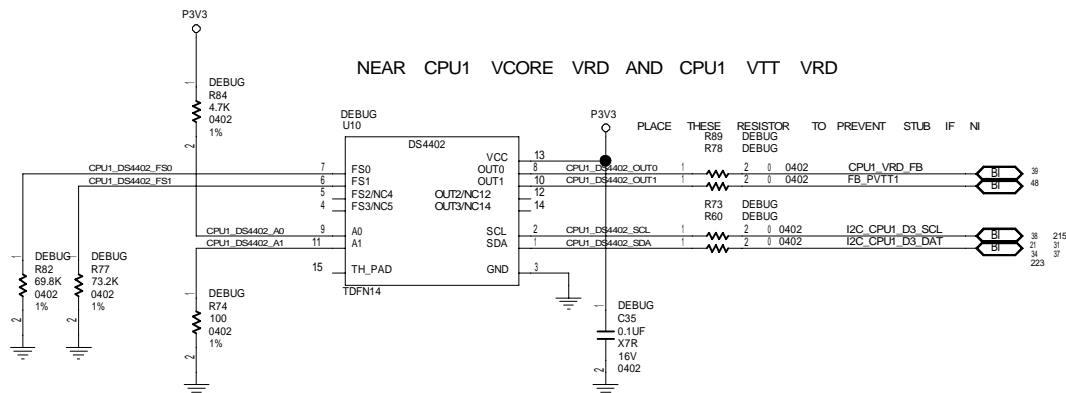
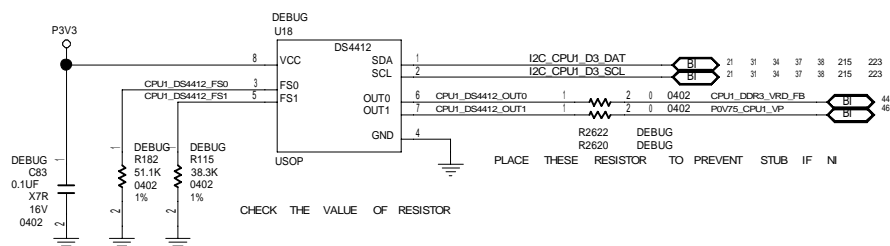
SHEET 222 OF 247

4

3

2

1

DEPARTMENT
R&D

SIZE
B

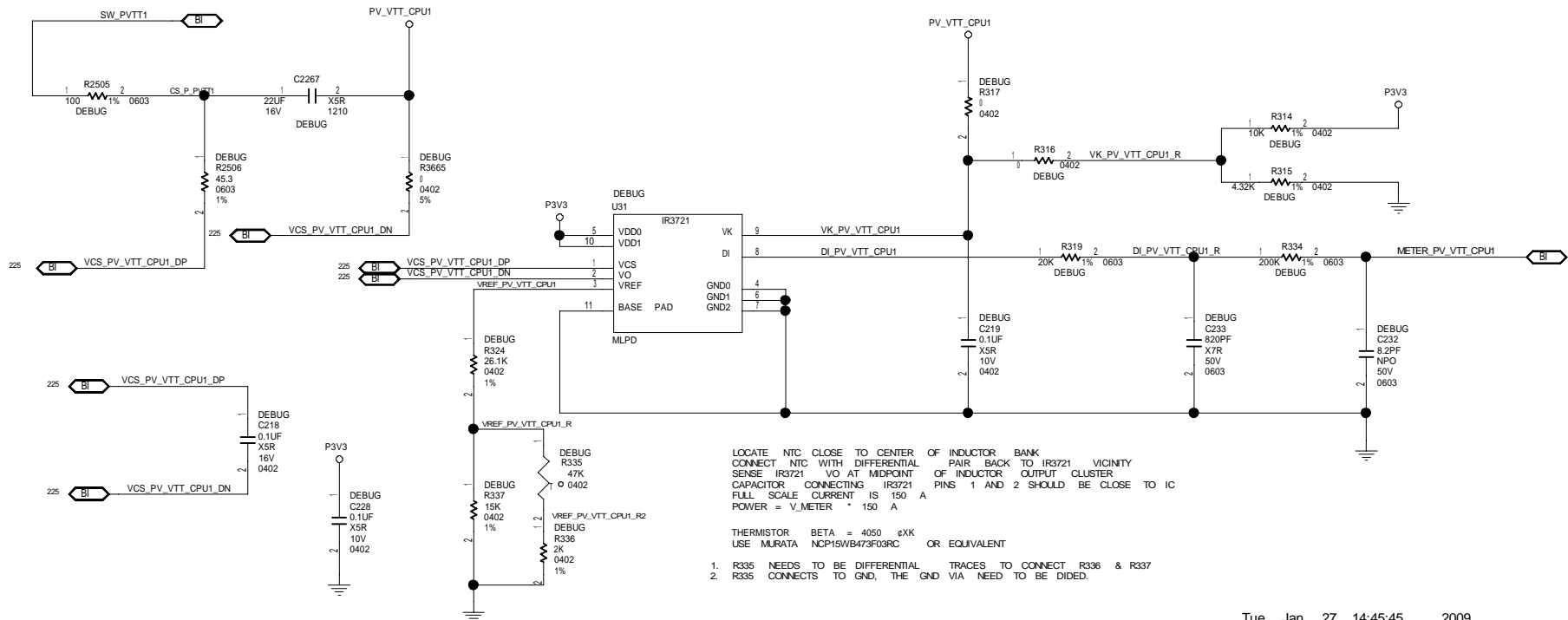
REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 223 OF 247
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REV
B

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FOXCONN CONFIDENTIAL



MONITOR - PV_VTT_CPU1

DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

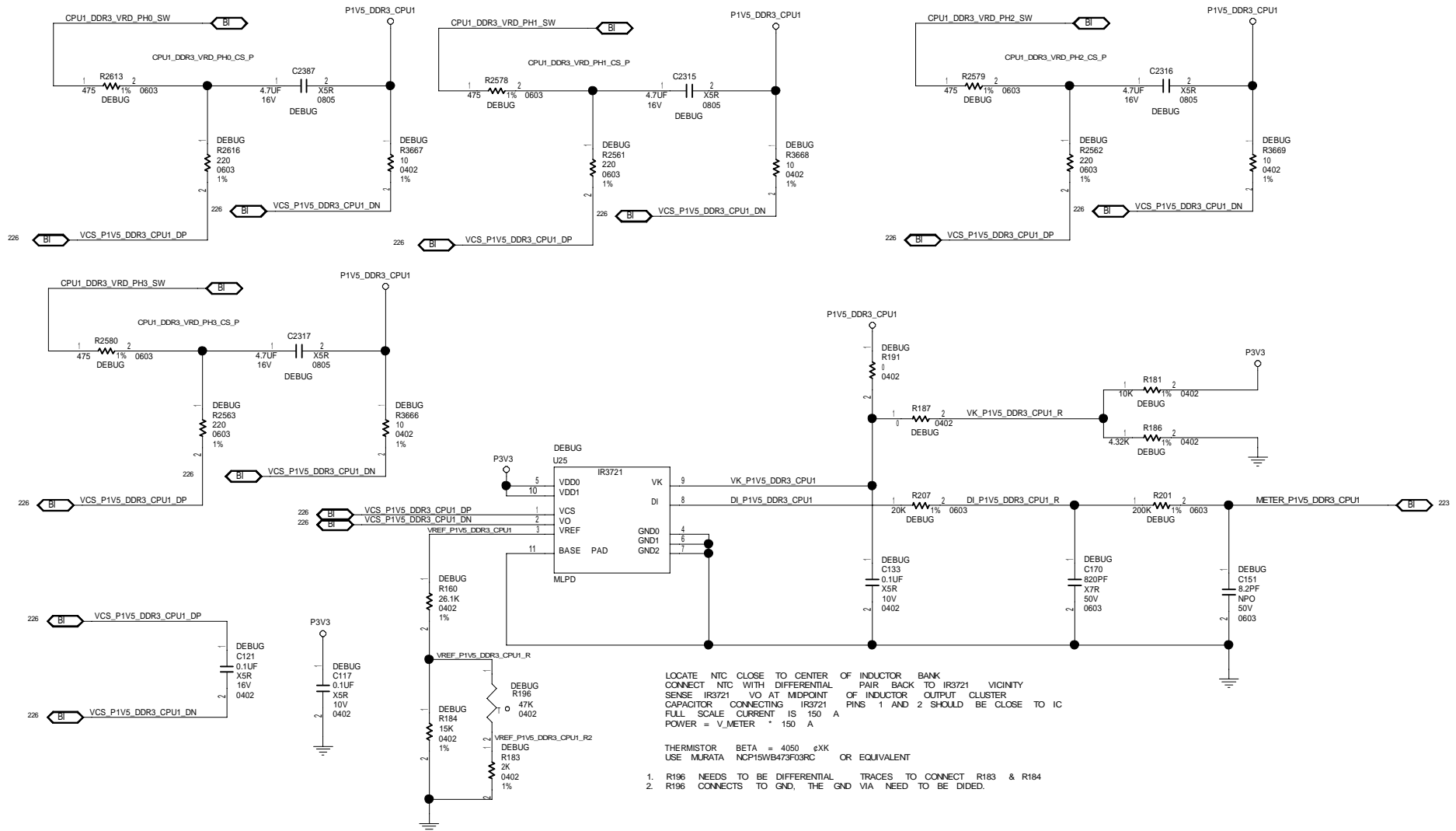
SCALE:

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SHEET 225 OF 247

Tue Jan 27 14:45:45 2009

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:46 2009

MONITOR - P1V5_DDR3_CPU1

DEPARTMENT
R&D

Foxconn eMS Inc.

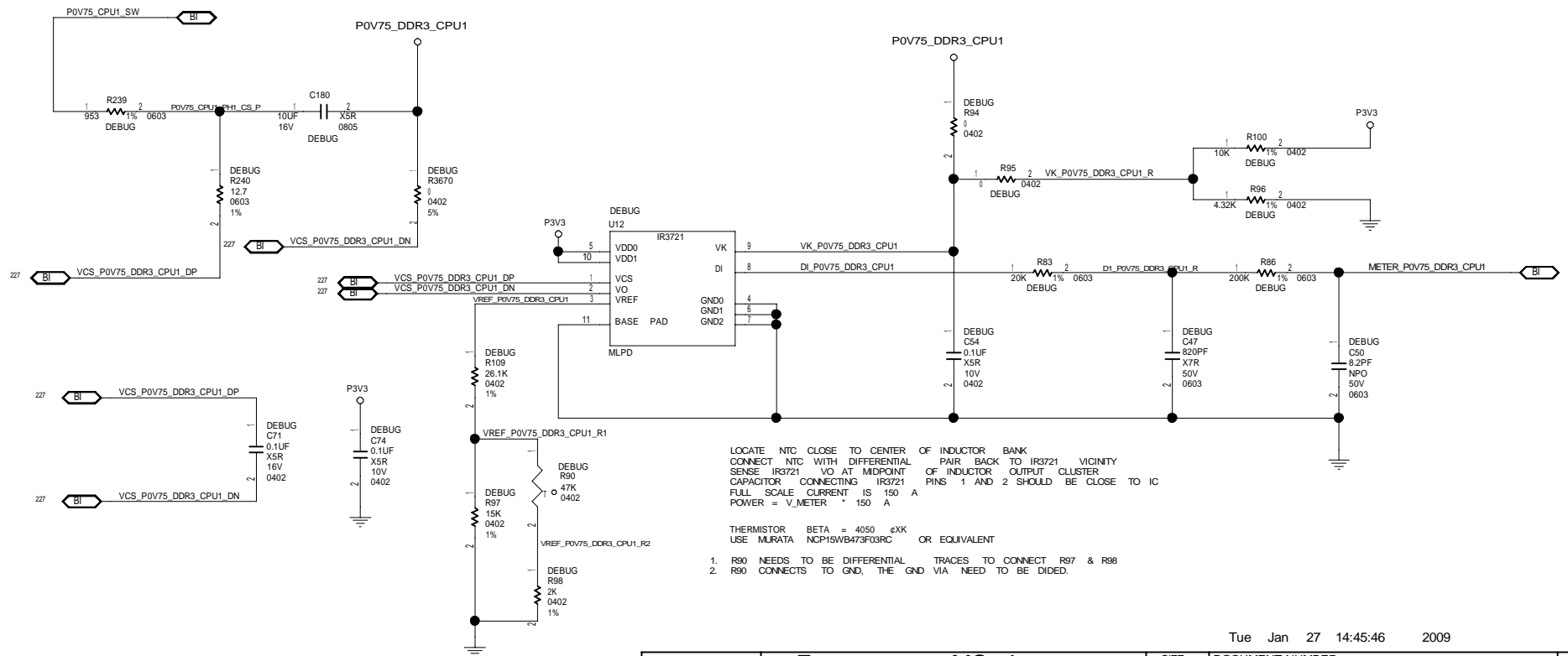
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 226 OF 247

FOXCONN CONFIDENTIAL



MONITOR - P0V75_DDR3_CPU1

DEPARTMENT
R&D

Foxconn eMS Inc.

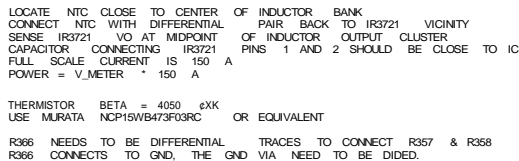
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
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AMANDAREV
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SHEET 227 OF 247

Tue Jan 27 14:45:46 2009

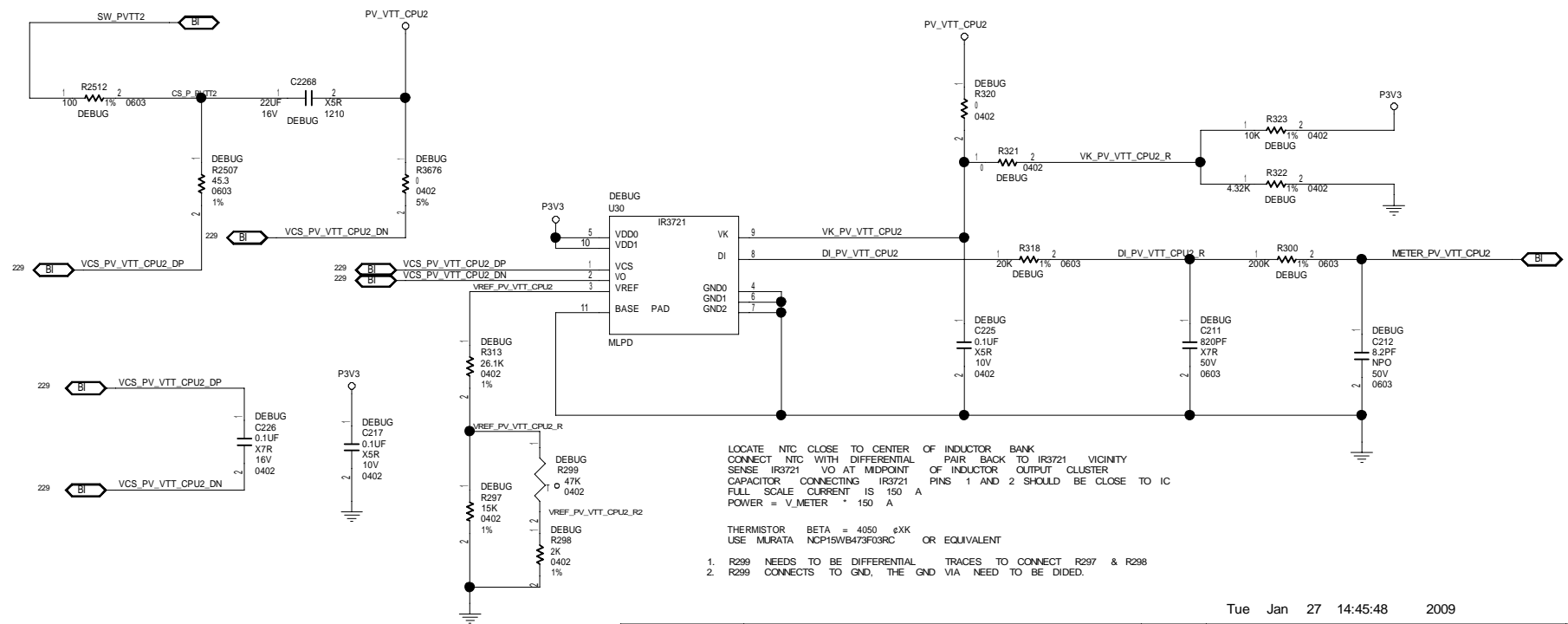


MONITOR - PV VCCP CPU2

REV
B

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FOXCONN CONFIDENTIAL



MONITOR - PV_VTT_CPU2

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

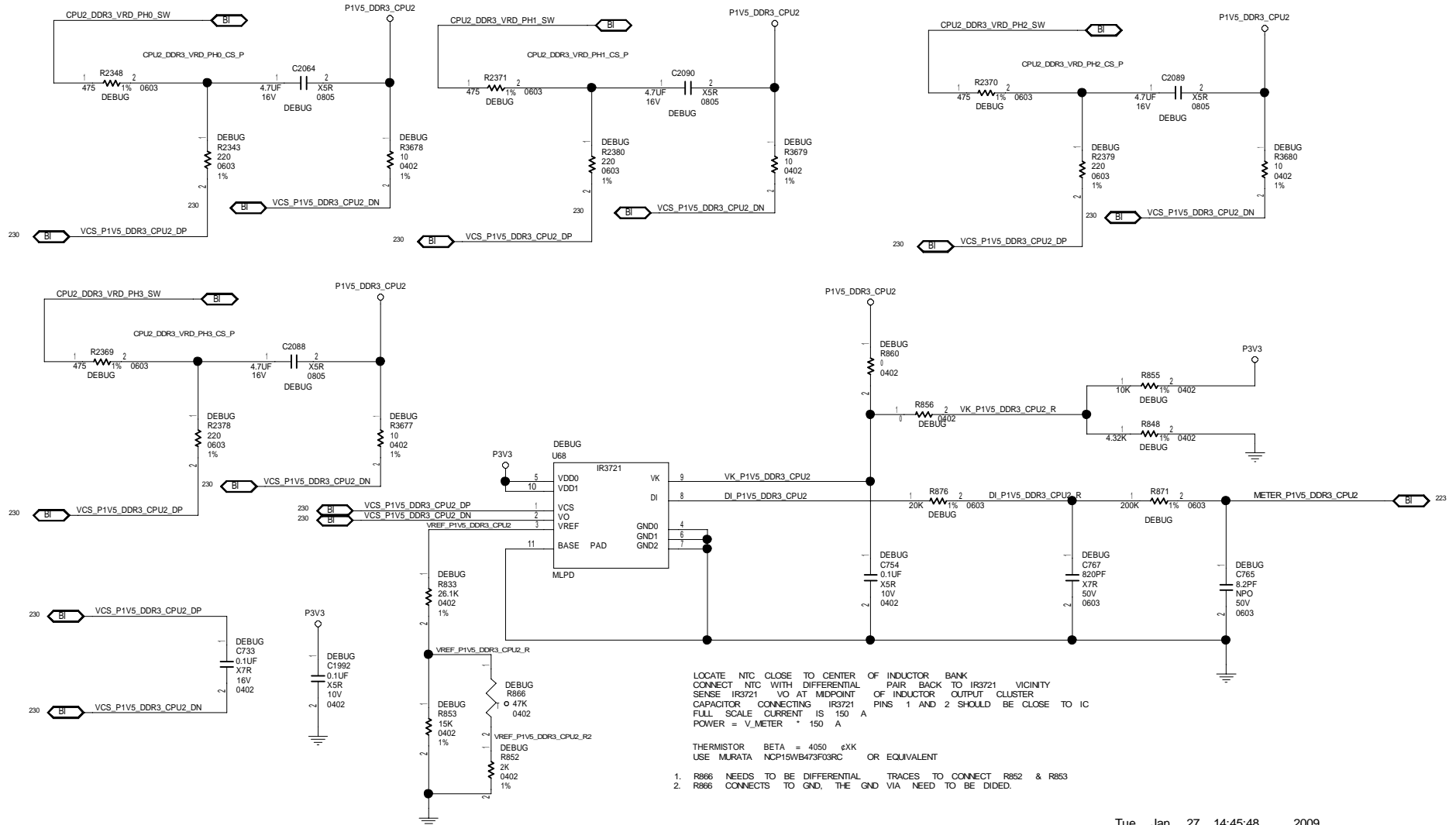
SCALE:

DO NOT SCALE DRAWING

SHEET 229 OF 247

Tue Jan 27 14:45:48 2009

FOXCONN CONFIDENTIAL



MONITOR - P1V5_DDR3_CPU2

DEPARTMENT
R&D

Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

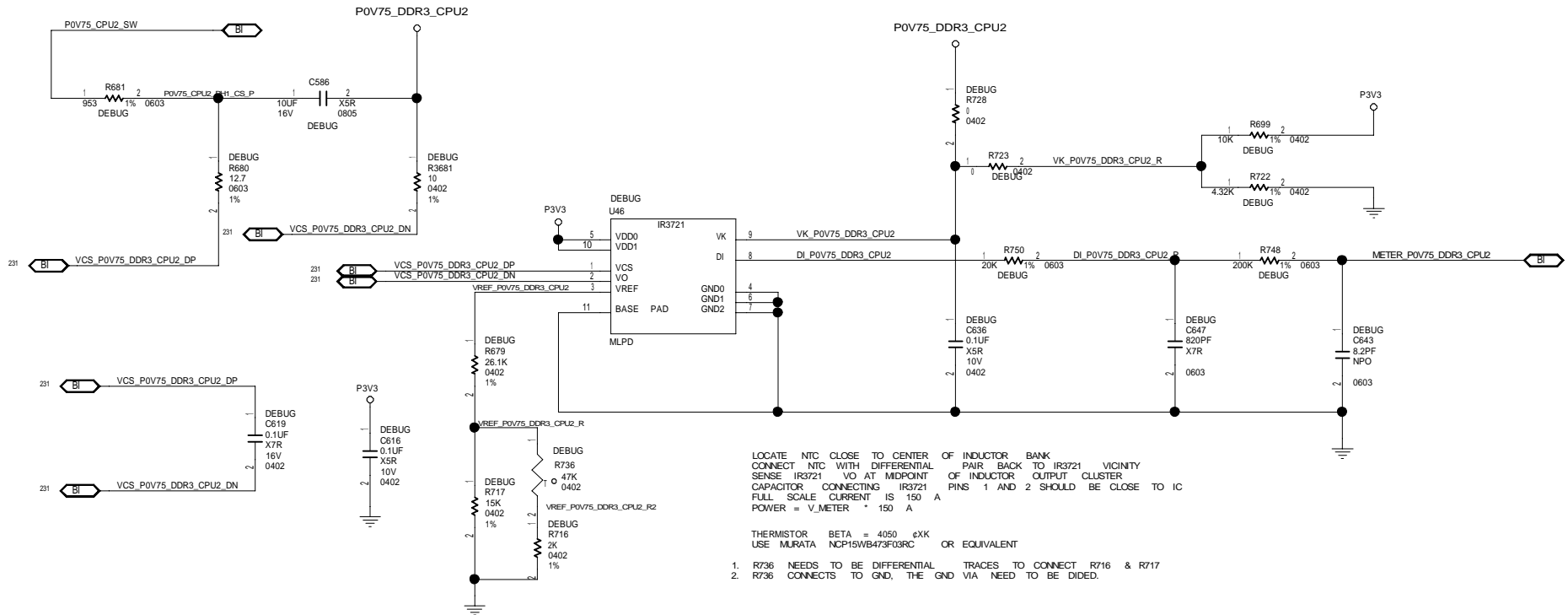
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SHEET 230 OF 247

Tue Jan 27 14:45:48 2009

FOXCONN CONFIDENTIAL



Tue Jan 27 14:45:49 2009

MONITOR - P0V75_DDR3_CPU2

DEPARTMENT
R&D

Foxconn eMS Inc.

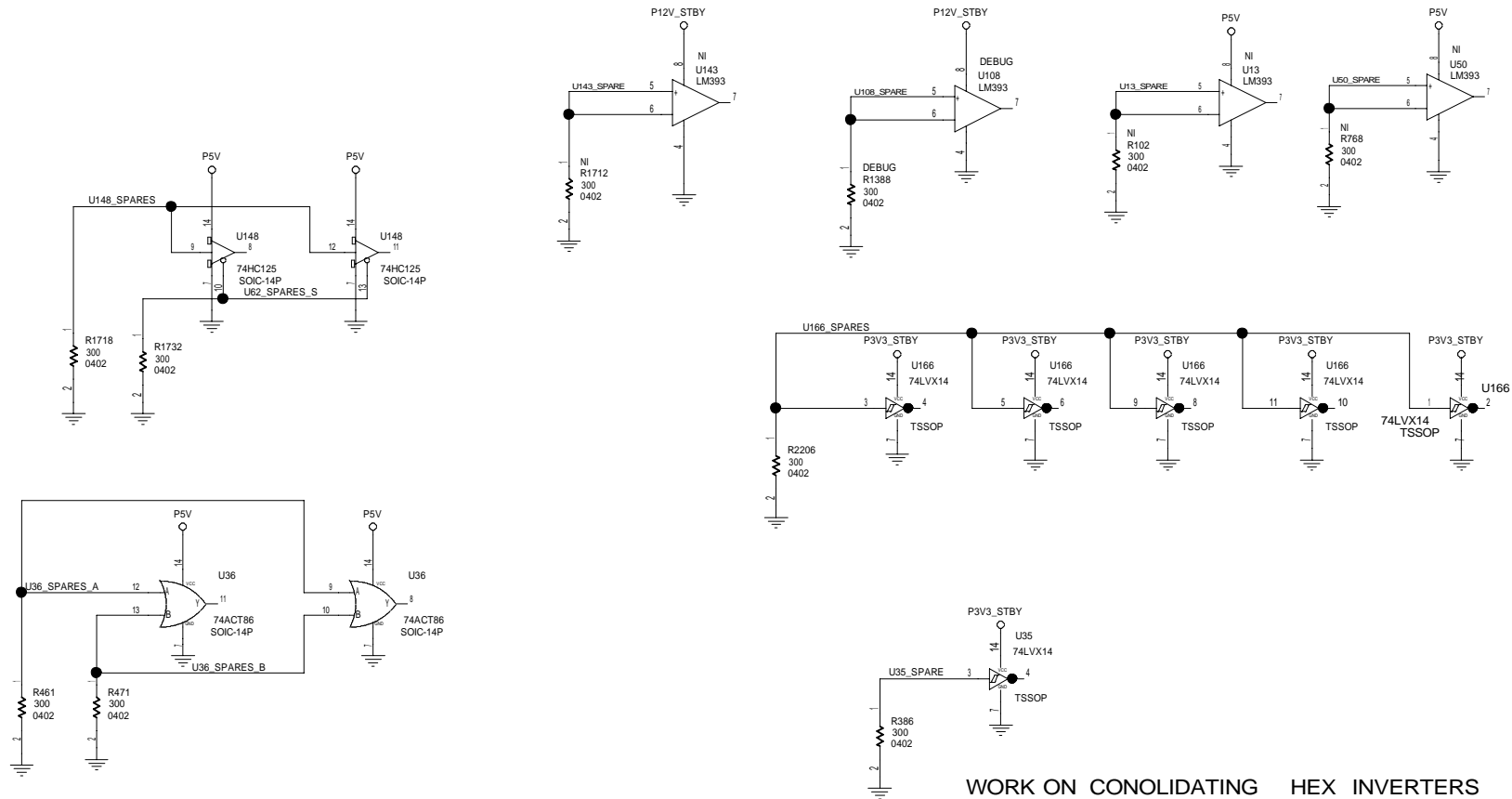
8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 231 OF 247

FOXCONN CONFIDENTIAL



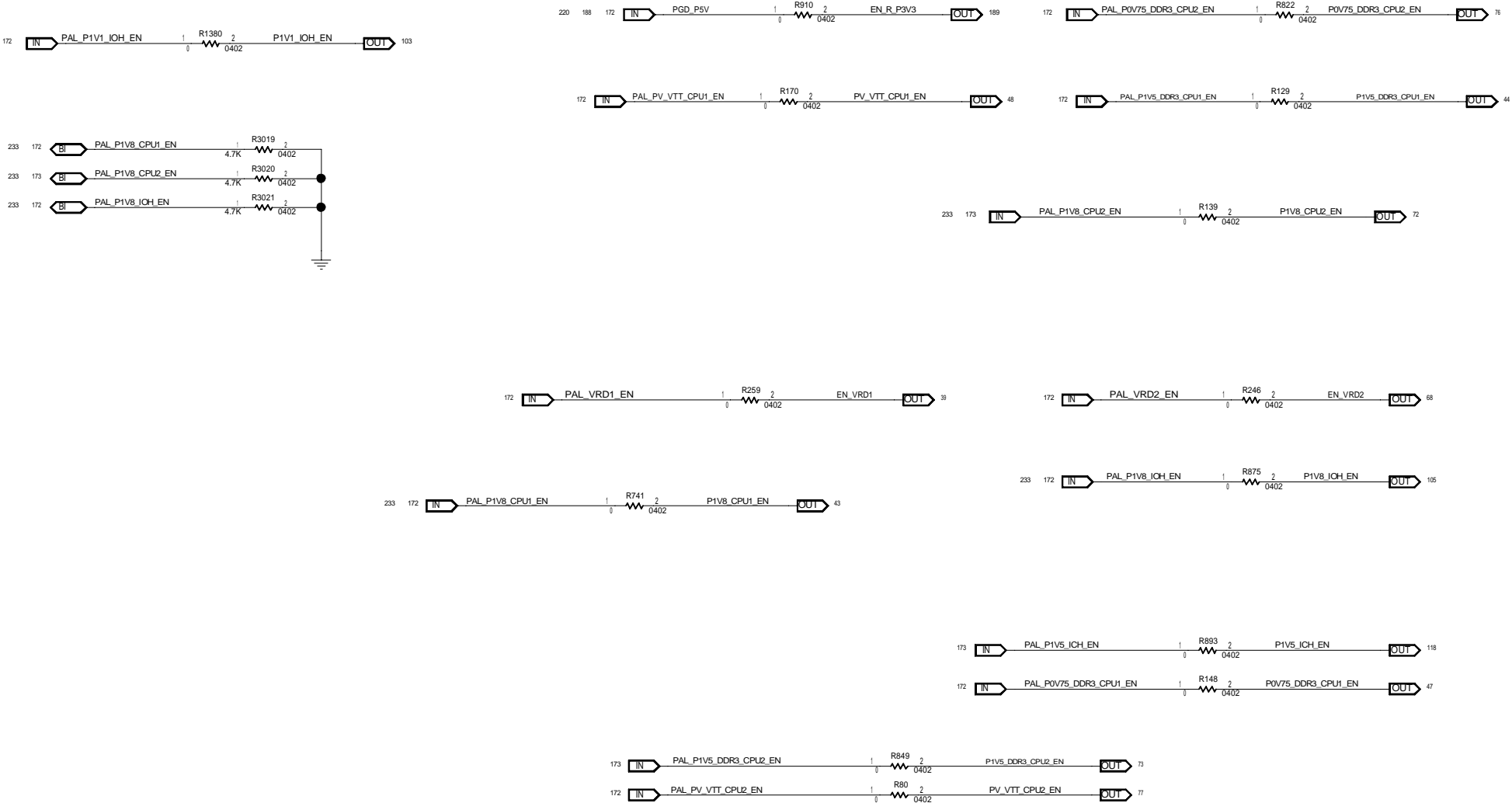
WORK ON CONSOLIDATING HEX INVERTERS
OR USE SINGLE INVERTER

SPARE GATES

Tue Jan 27 14:45:49 2009

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:		DO NOT SCALE DRAWING		SHEET 232 OF 247

FOXCONN CONFIDENTIAL



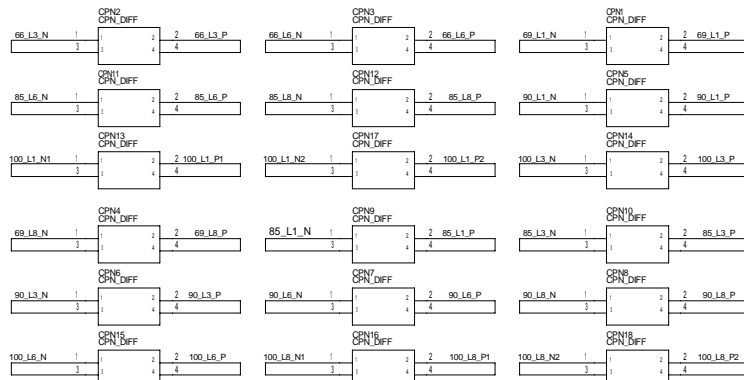
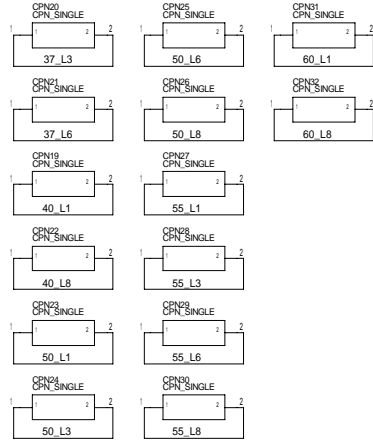
POWER SEQUENCING

DEPARTMENT R&D	Foxconn eMS Inc. 8807 Fallbrook Drive Houston, Texas 77064 (281) 668-1668	SIZE B	DOCUMENT NUMBER AMANDA	REV B
SCALE:		DO NOT SCALE DRAWING		
		SHEET 233 OF 247		

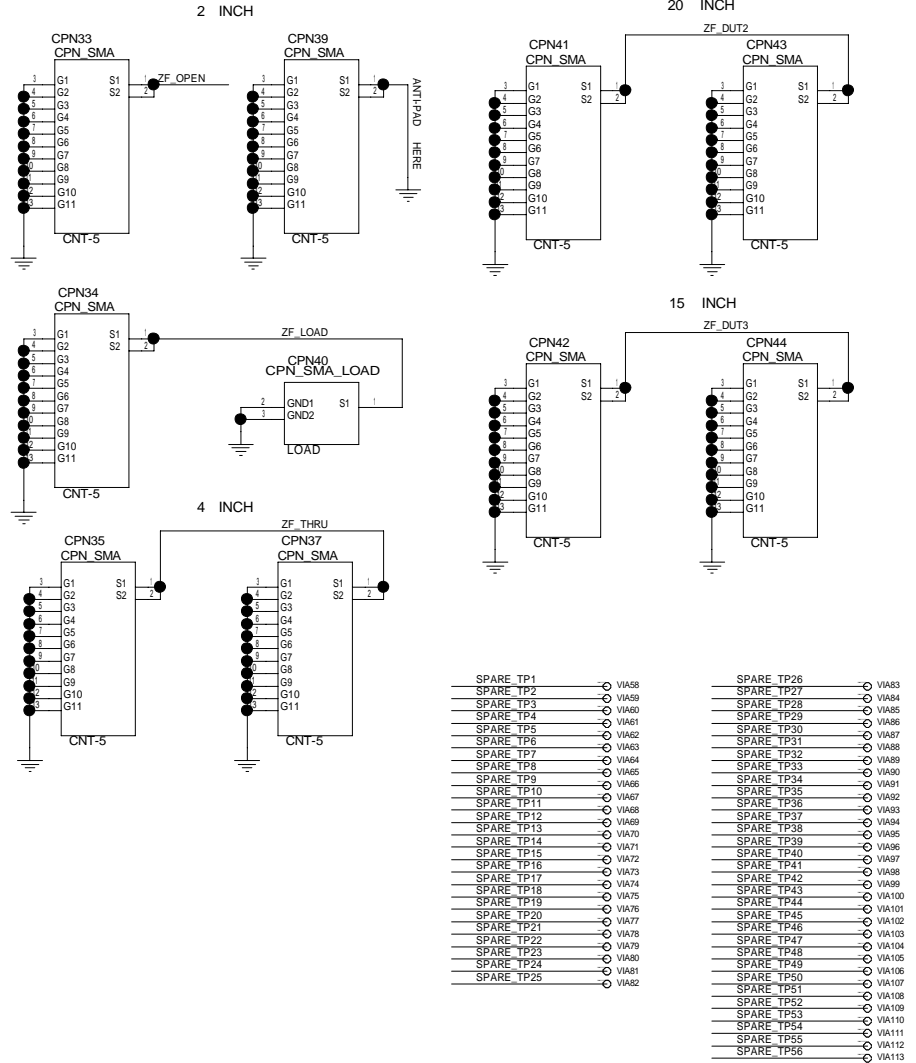
Tue Jan 27 14:45:50 2009

FOXCONN CONFIDENTIAL

IMPEDANCE COUPONS



COUPONS FOR VNA TESTING



IMPEDANCE COUPONS

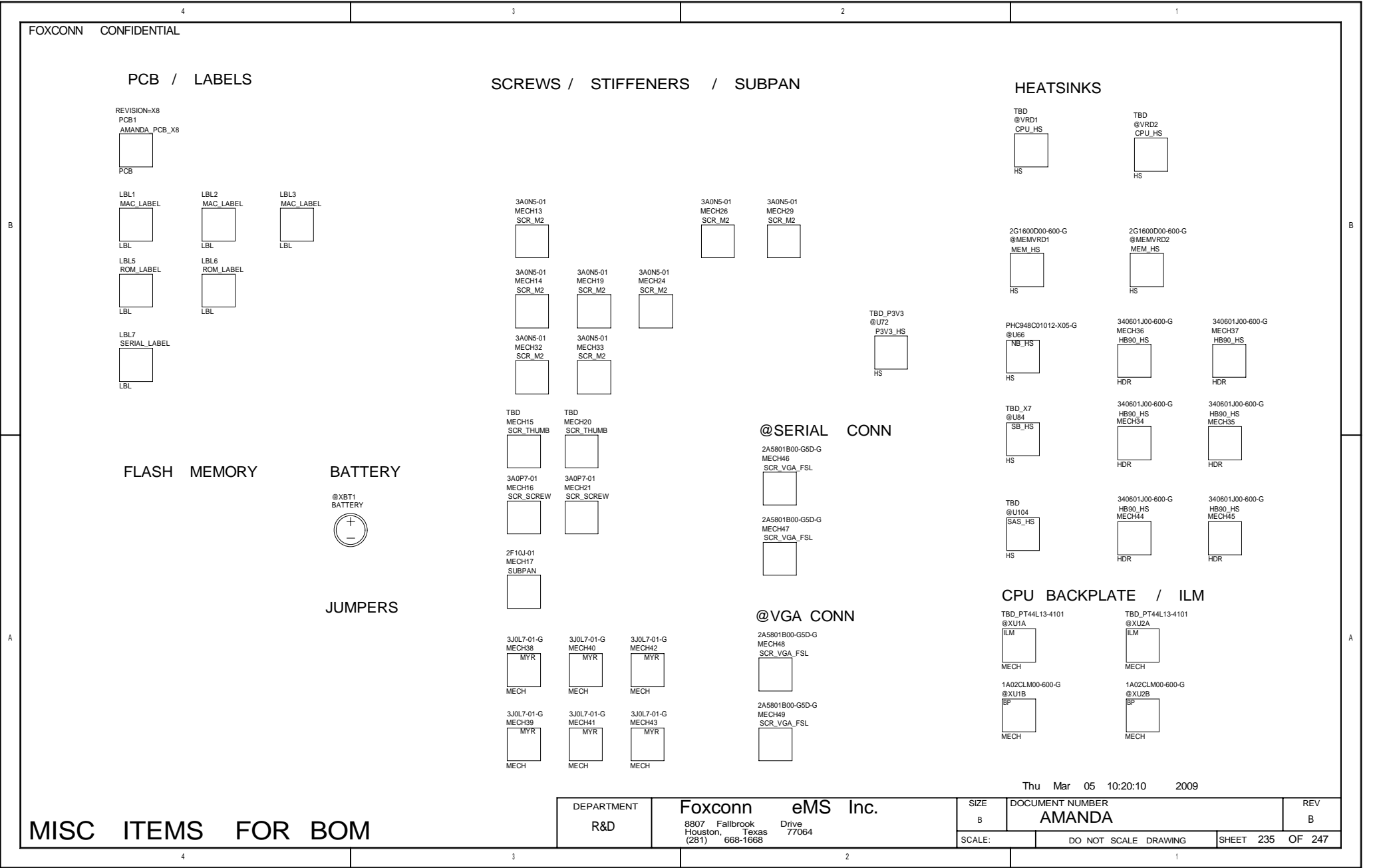
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

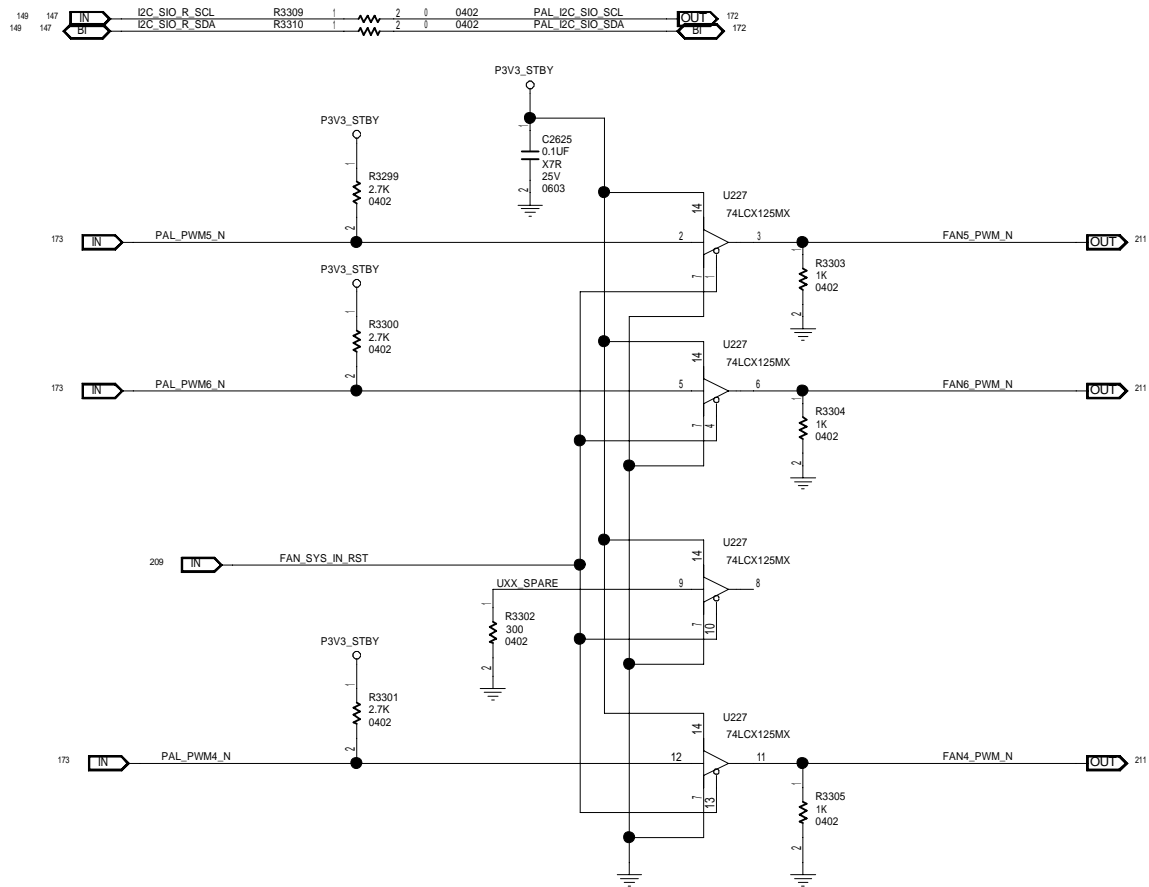
DO NOT SCALE DRAWING

SHEET 234 OF 247

Tue Jan 27 14:45:51 2009



FOXCONN CONFIDENTIAL



FAN PWM 4-6

Tue Jan 27 14:45:52 2009

DEPARTMENT
R&D

Foxconn eMS Inc.

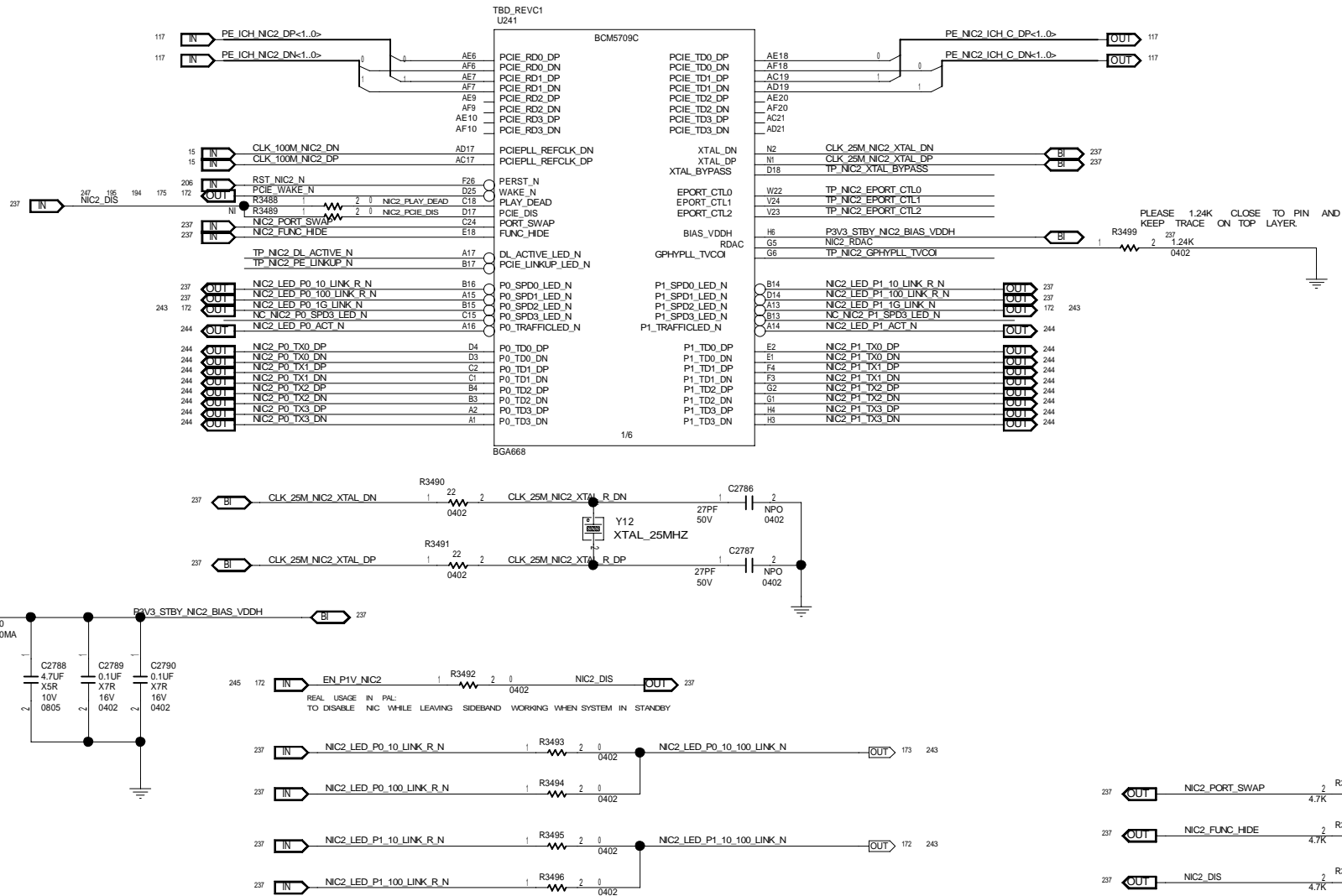
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 236 OF 247

FOXCONN CONFIDENTIAL



BCM5709C #2

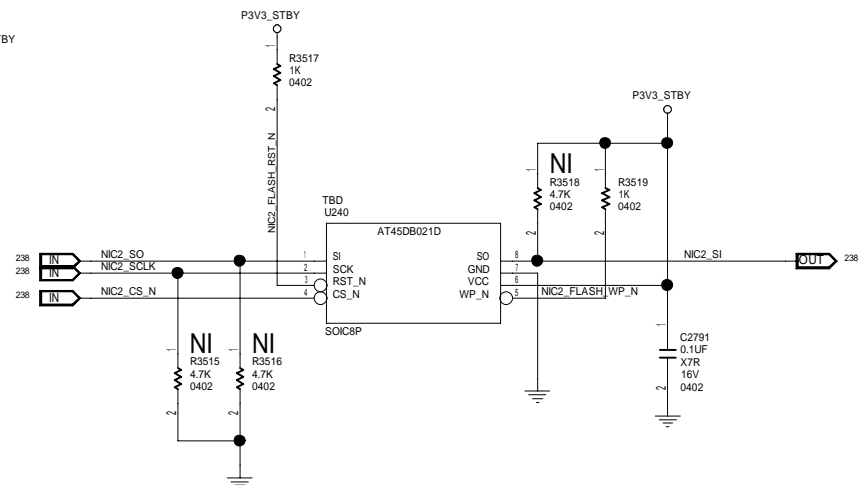
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

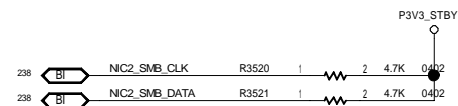
DO NOT SCALE DRAWING

SHEET 237 OF 247

Tue Jan 27 14:45:53 2009



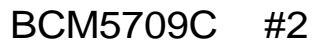
FLASH STRAPPING OPTIONS					FLASH DEVICE		
X = DO NOT STUFF, USE INTERNAL PULL UP/DOWN RESISTOR 0 = STUFF A 4.7K PULL DOWN RESISTOR 1 = STUFF THE 4.7K PULL UP RESISTOR					ATMEL	1MB	AT45DB011B/D
SO	SI	CS	SCLK		ATMEL	2MB	AT45DB021B/D
X	X	X	X		ATMEL	4MB	AT45DB041B/D
0	1	X	0	ST	1MB	M45PE10	
				ST	2MB	M45PE20	
				ST	4MB	M45PE20	

DEPARTMENT
R&D

SIZE
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B

SCALE:	DO NOT SCALE DRAWING	SHEET 238 OF 247
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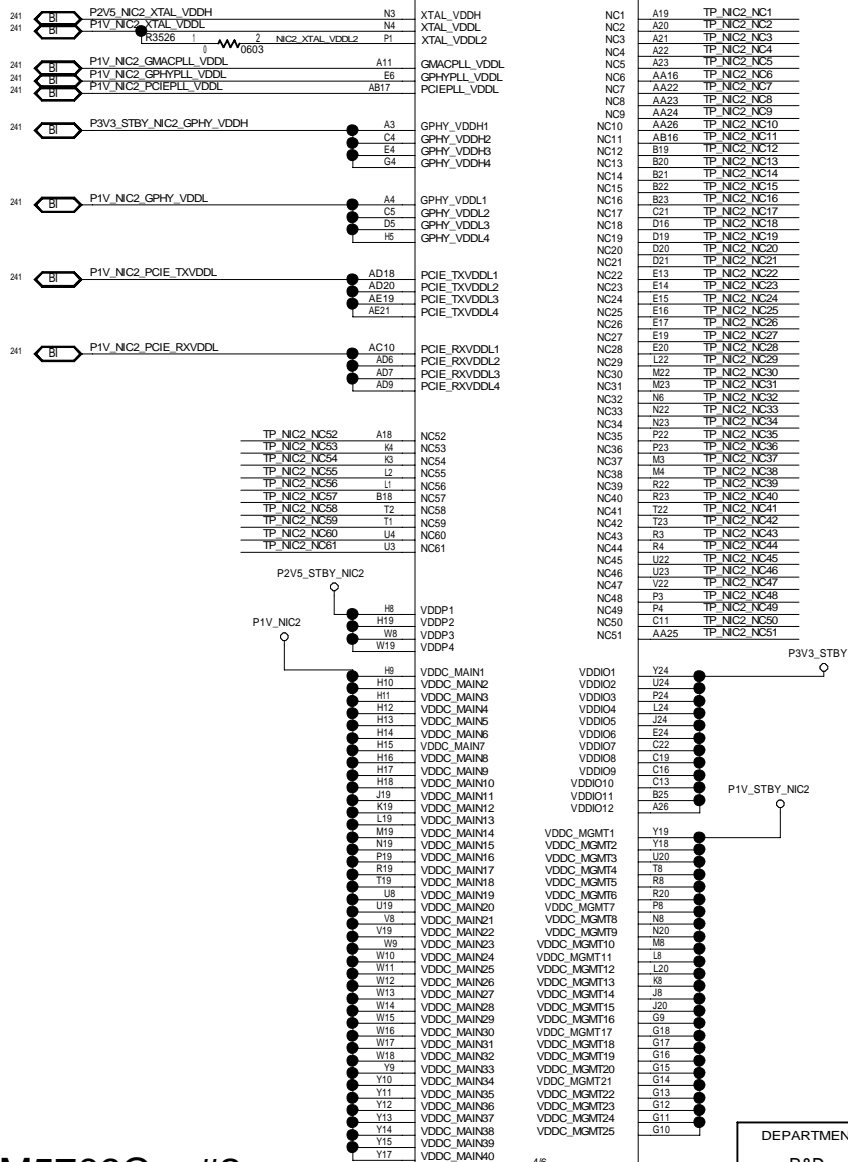
DEPARTMENT
R&D

SIZE
B

REV
B

SCALE:	DO NOT SCALE DRAWING	SHEET 239 OF 247
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BCM5709C #2

DEPARTMENT
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Foxconn eMS Inc.

8807 Fallbrook
Houston, Texas
(281) 668-1668Drive
77064SIZE
BDOCUMENT NUMBER
AMANDAREV
B

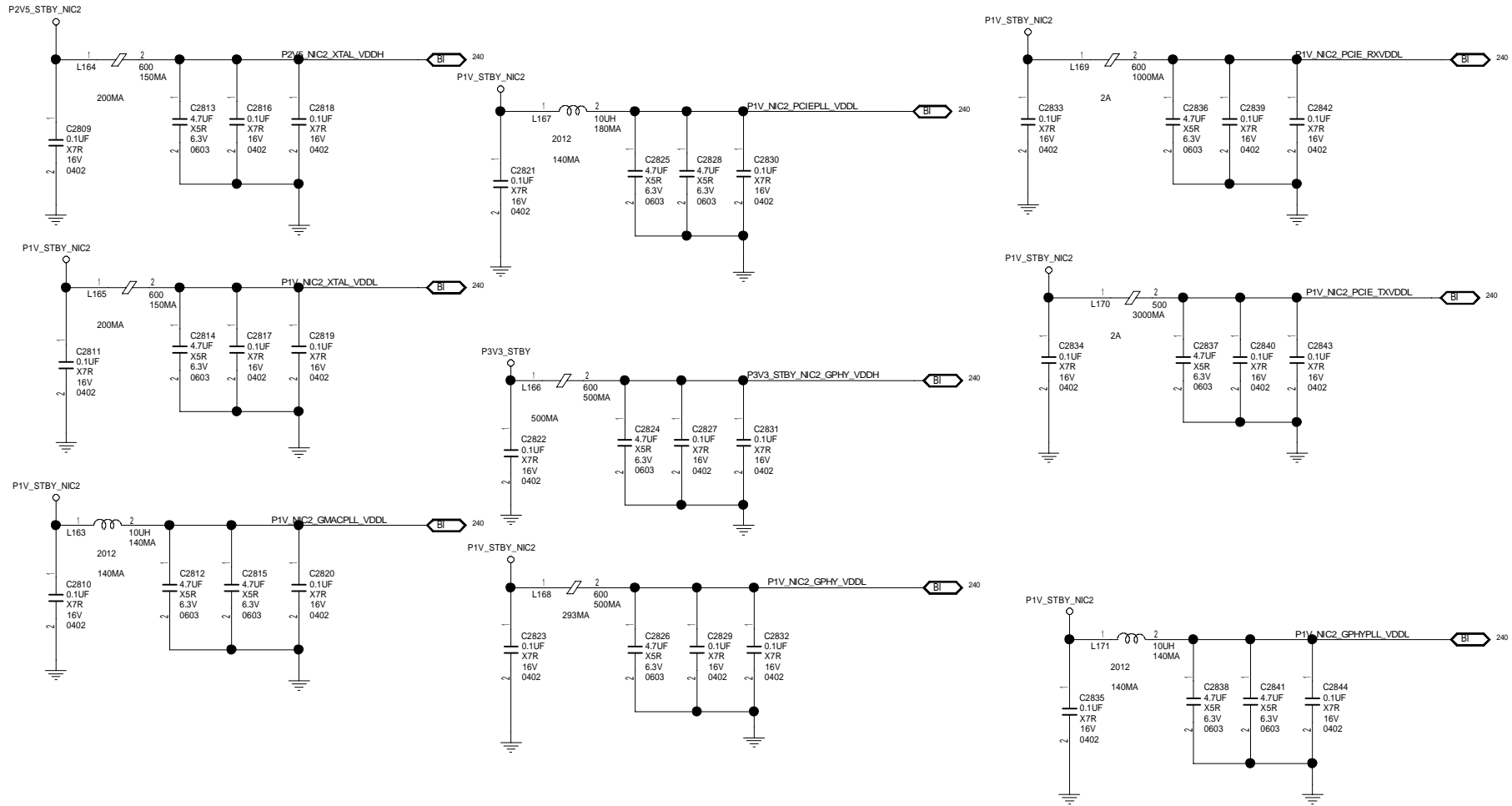
SCALE:

DO NOT SCALE DRAWING

SHEET 240 OF 247

Tue Jan 27 14:45:55 2009

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ALL SMALL VALUE CAPS SHOULD BE PLACED CLOSE TO NIC POWER PINS

Tue Jan 27 14:45:56 2009

BCM5709C #2

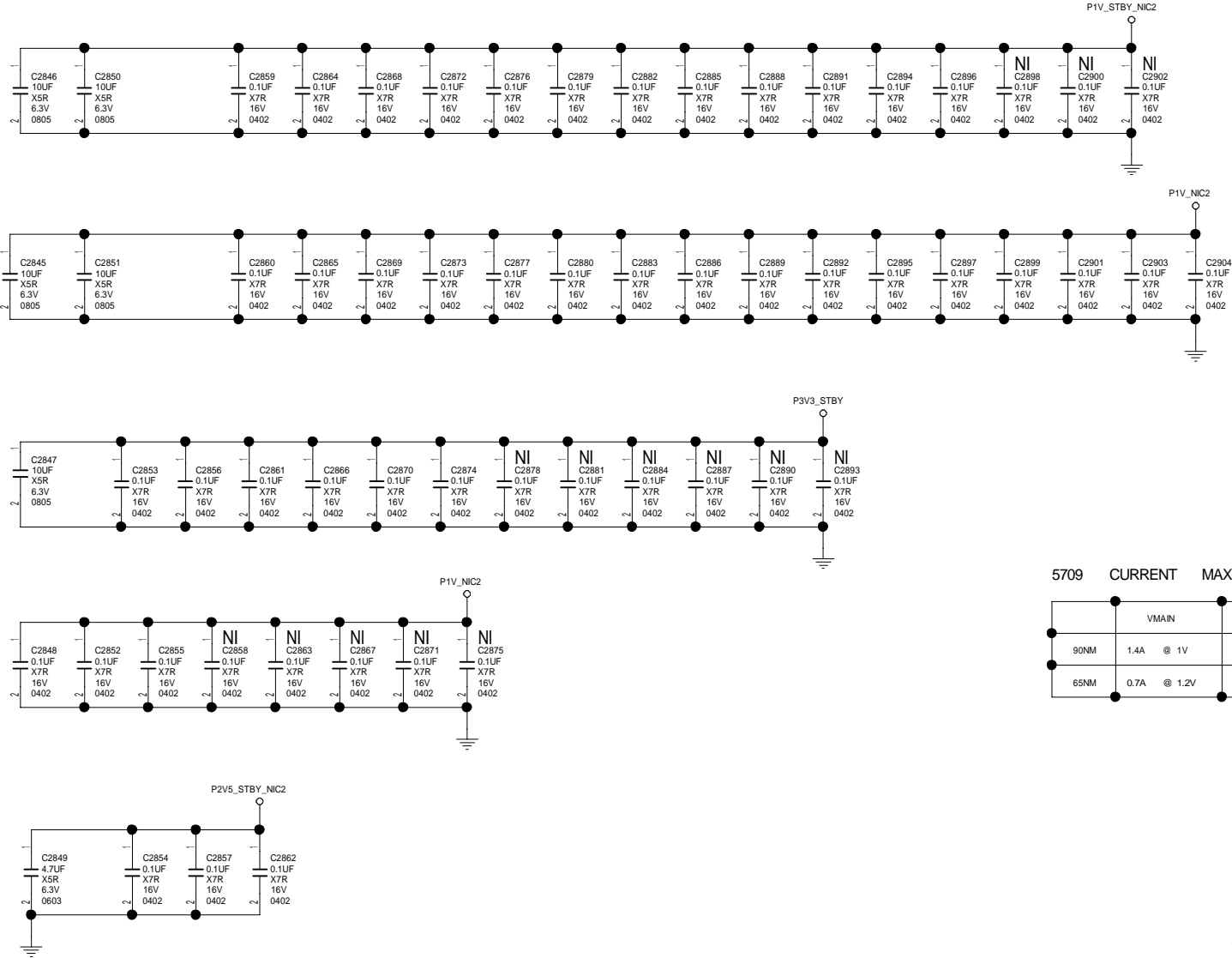
DEPARTMENT
R&DFoxconn eMS Inc.
8807 Fallbrook Drive
Houston, Texas 77064
(281) 668-1668SIZE
BDOCUMENT NUMBER
AMANDAREV
B

SCALE:

DO NOT SCALE DRAWING

SHEET 241 OF 247

FOXCONN CONFIDENTIAL



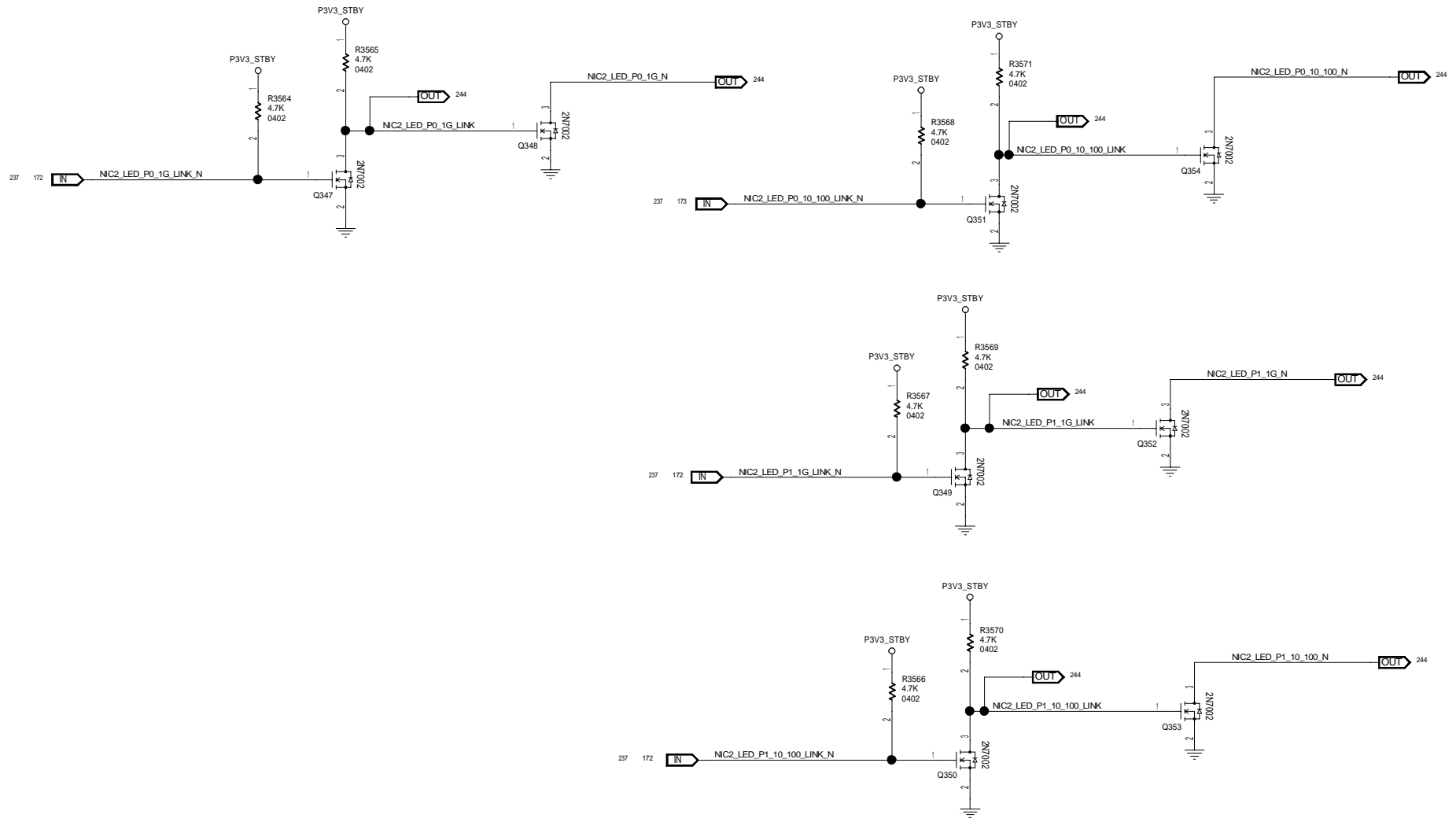
5709		CURRENT	MAXIMUMS		
		VMAIN	VMGMT	P2V5_STBY	P3V3_STBY
90NM	1.4A @ 1V	1.8A @ 1V	113MA	208MA	
65NM	0.7A @ 1.2V	0.9A @ 1.2V	57MA	104MA	

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		SCALE:	DO NOT SCALE DRAWING	SHEET 242	OF 247

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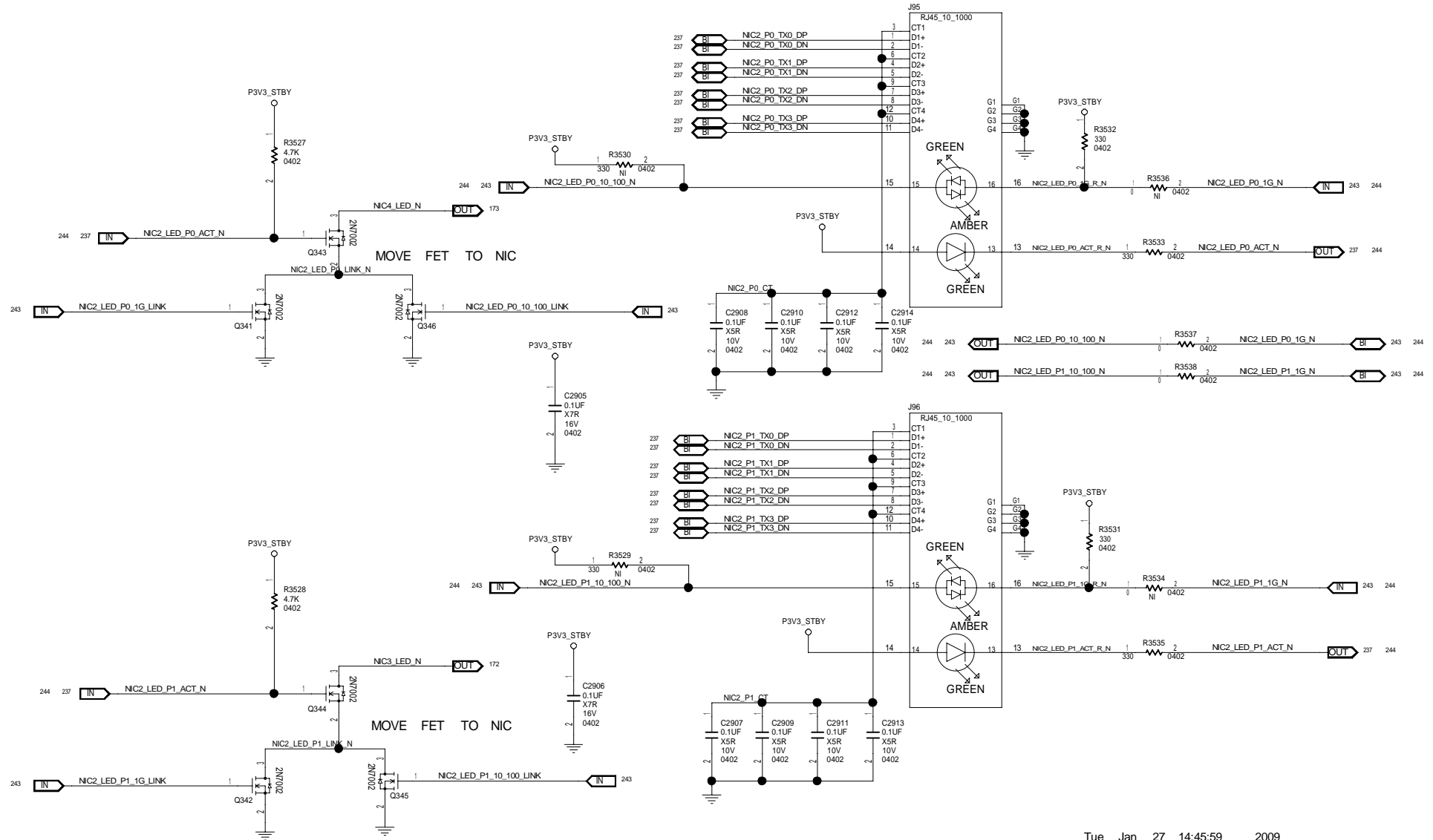


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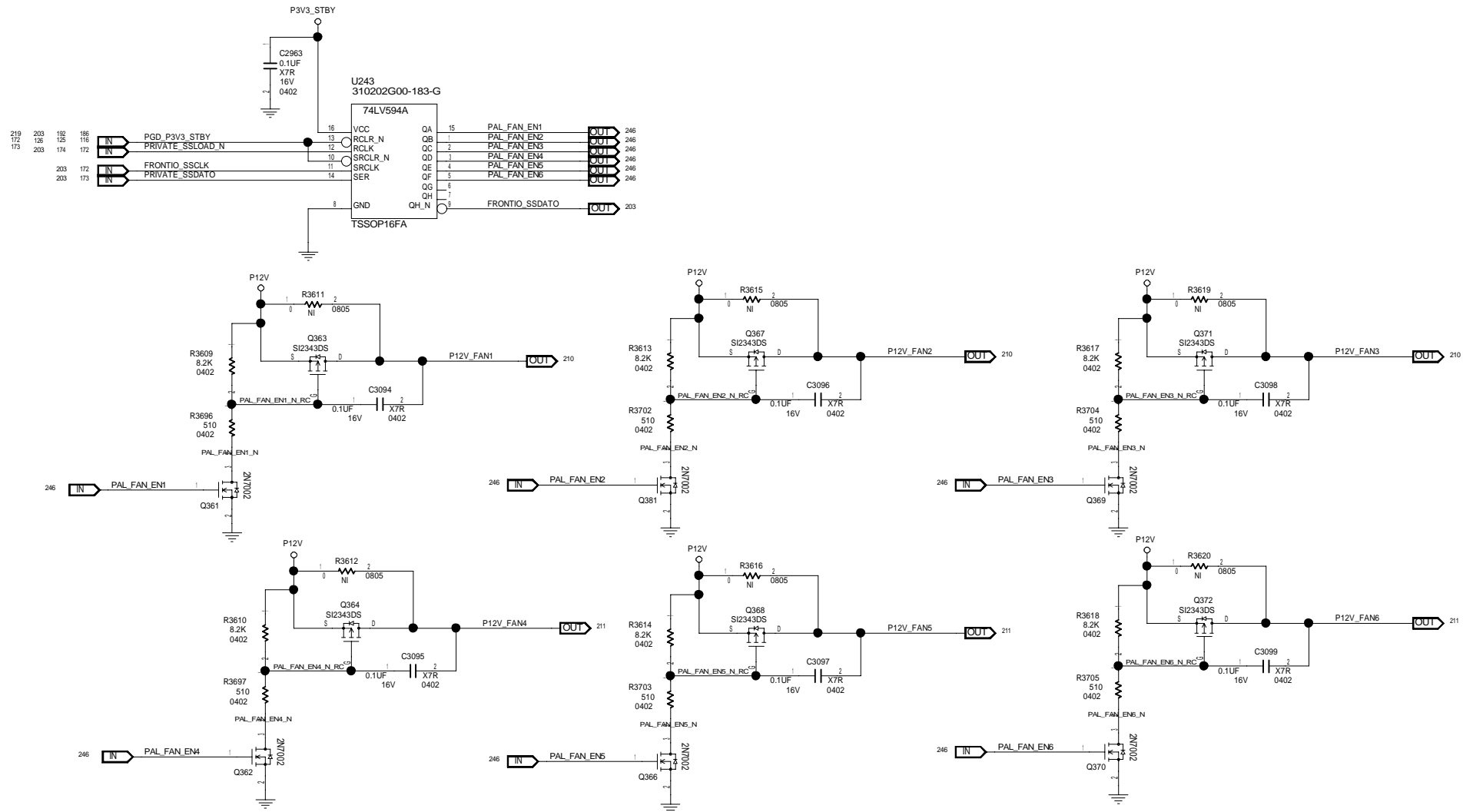
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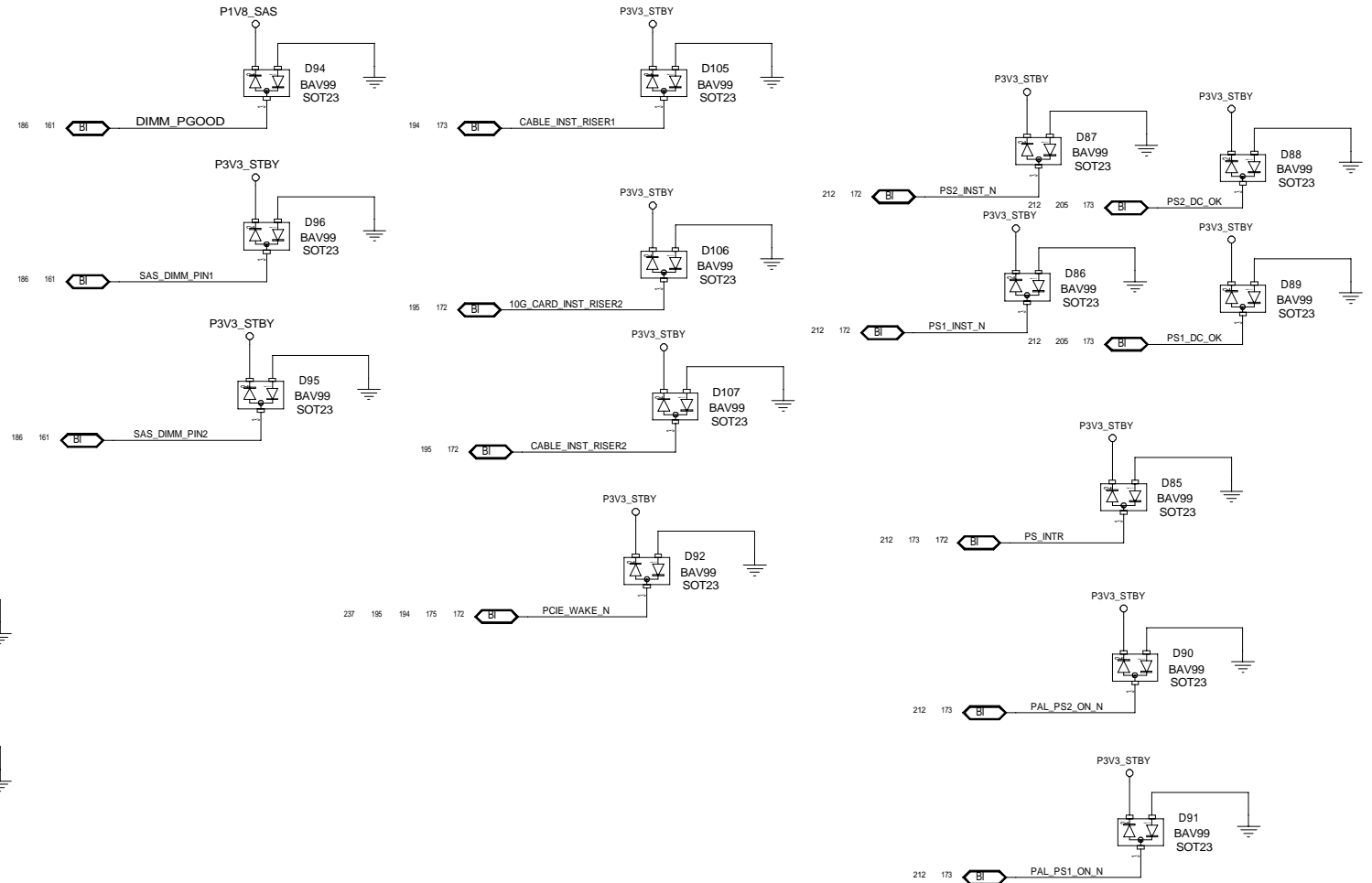
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