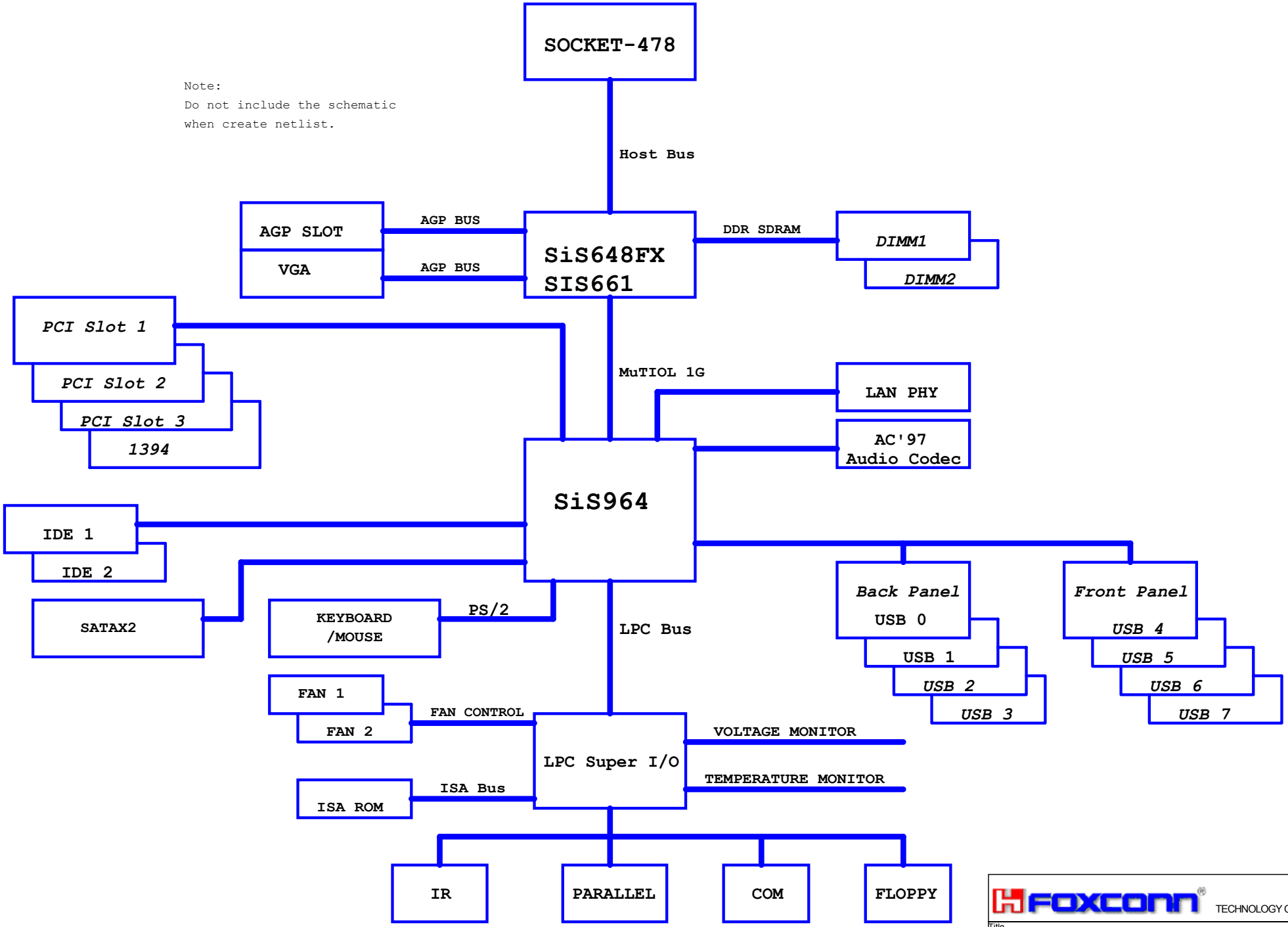

FOXCONN TECHNOLOGY COPR.

Title: Topology

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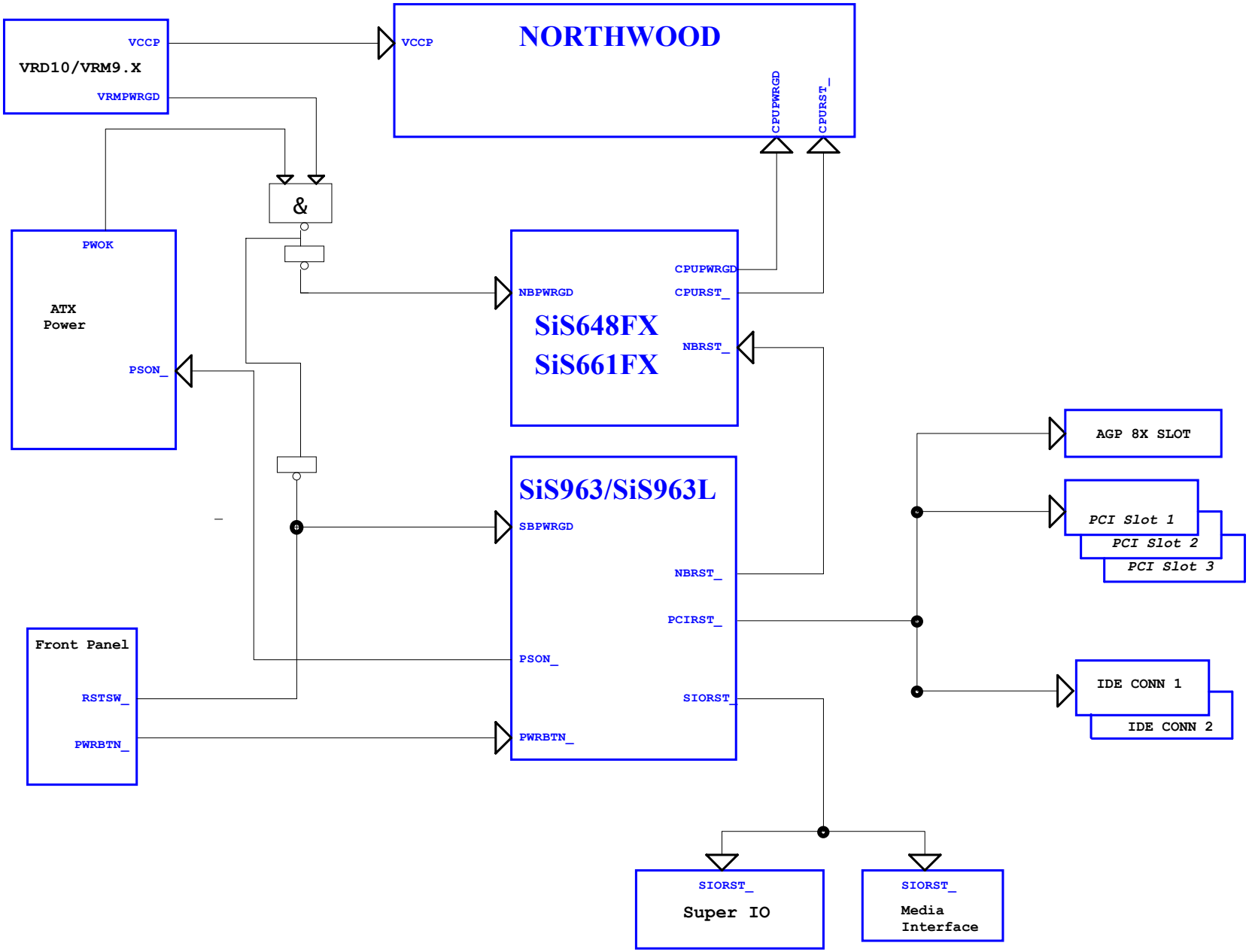
Sheet 1 of 42

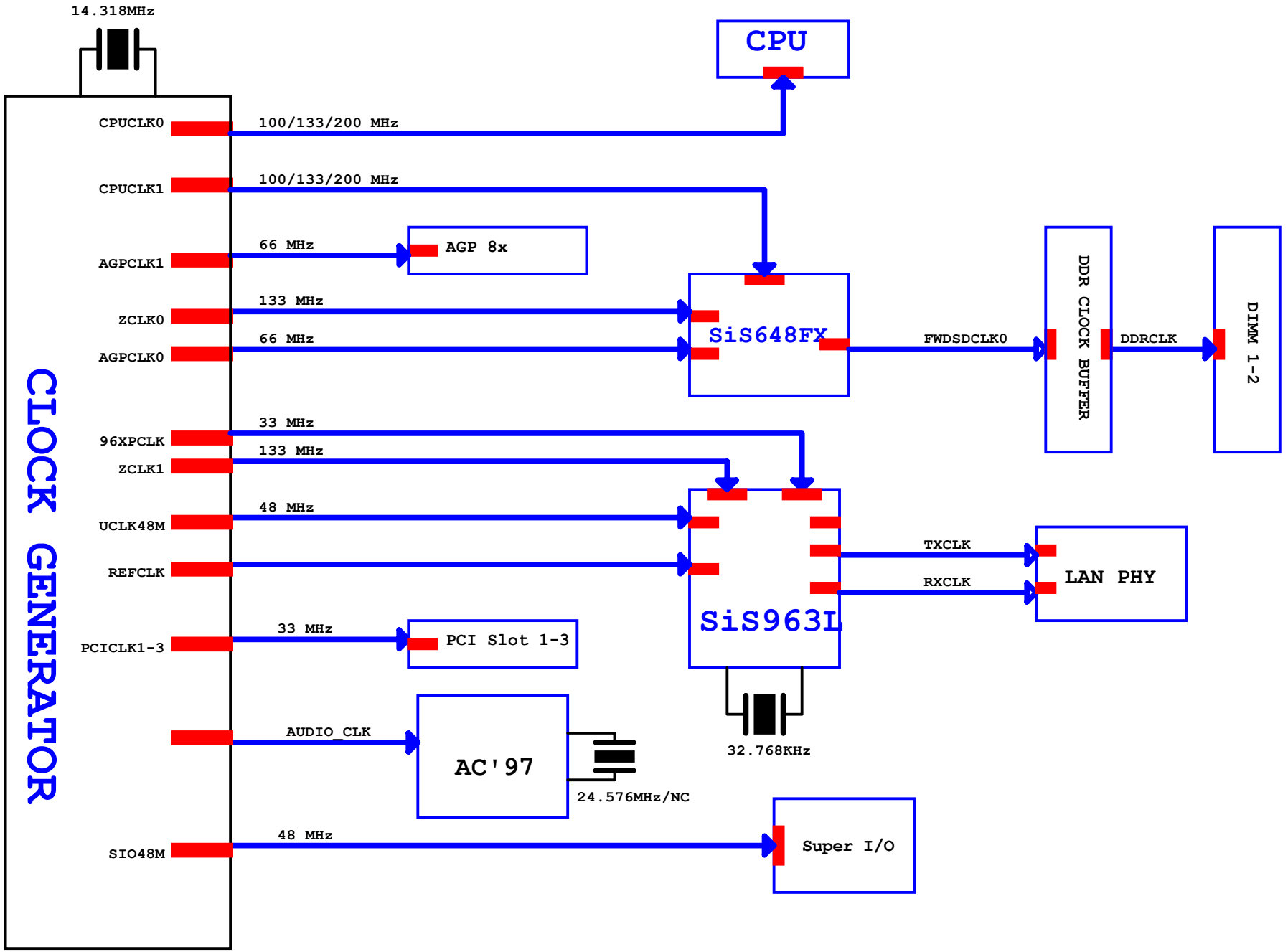


FOXCONN TECHNOLOGY COPR.

Title: Reset Map

Document Number: 661M05 Rev: A

Date: Saturday, October 09, 2004 Sheet 2 of 42



FOXCONN TECHNOLOGY COPR.

Title	Clock Distribution
Document Number	661M05
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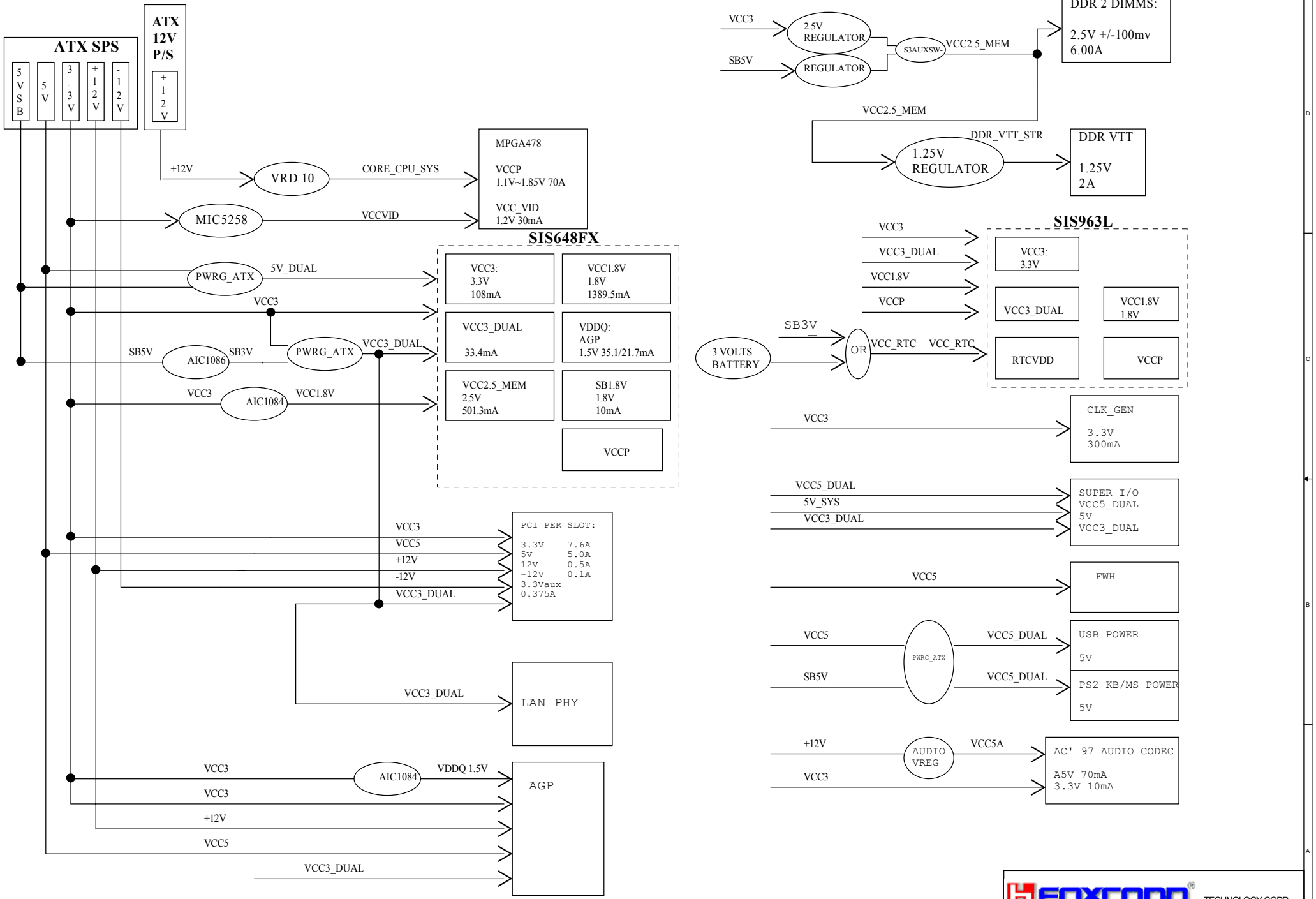

FOXCONN TECHNOLOGY COPR.

Title: Power Delivery Map

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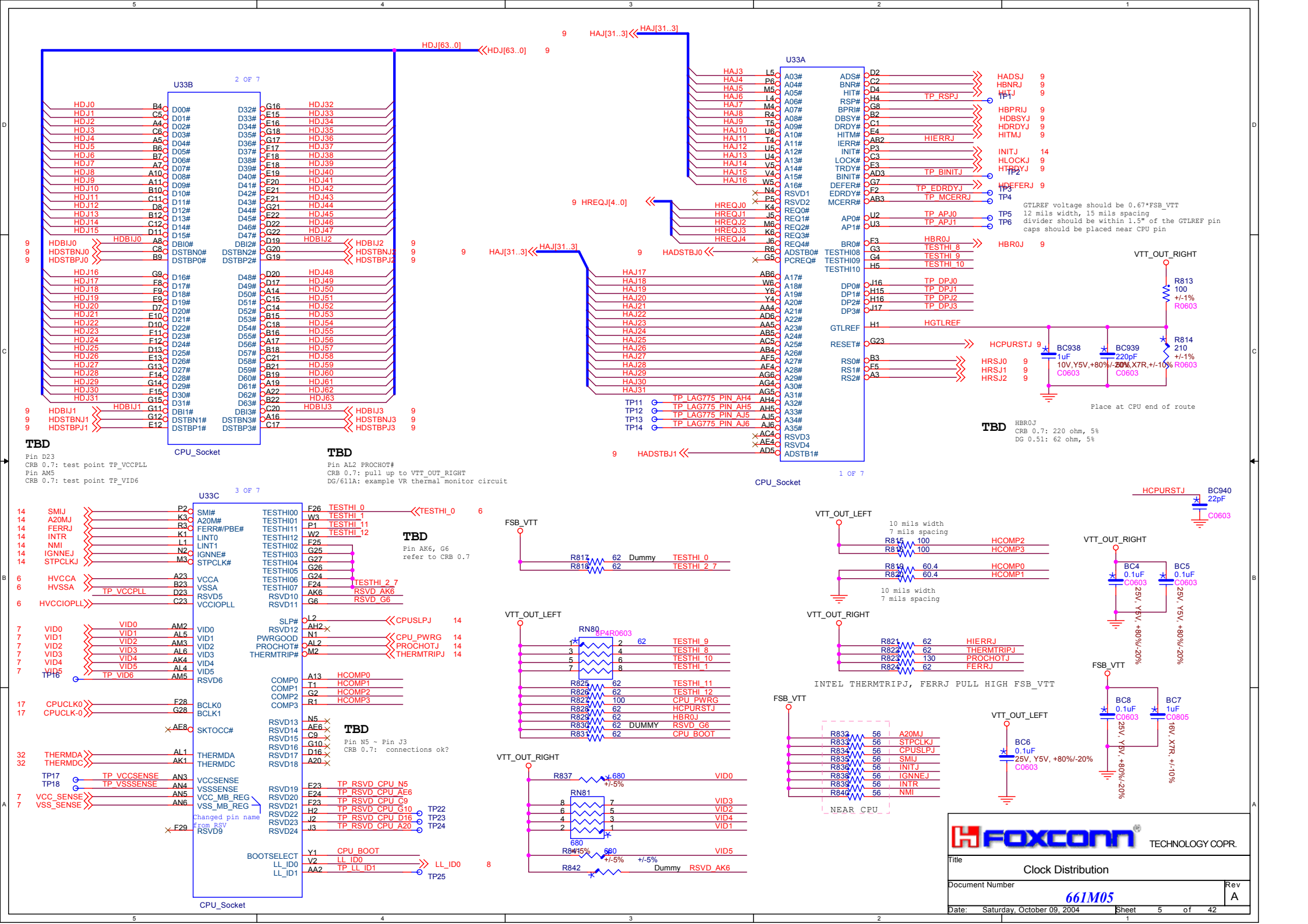
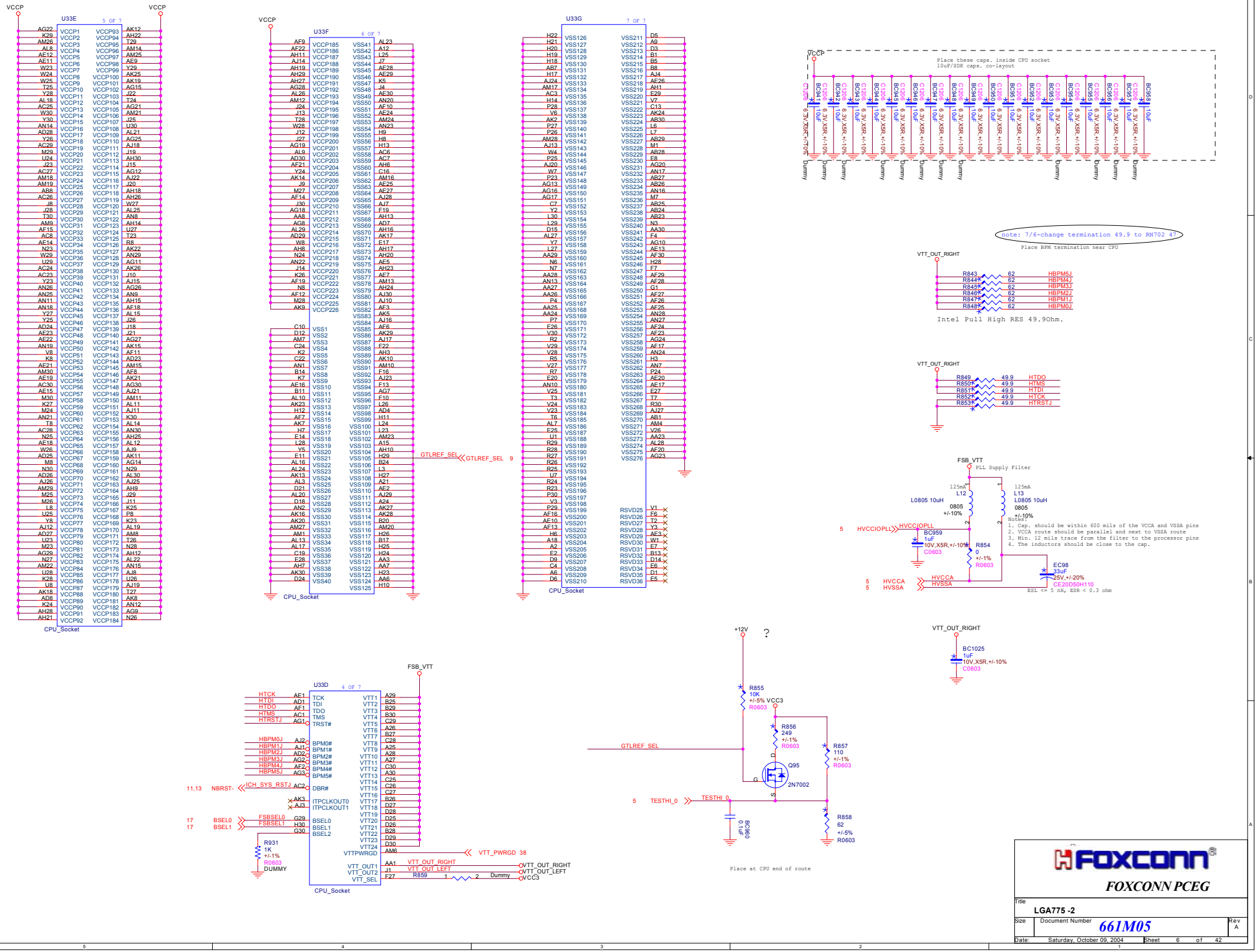

U33B
2 OF 7
HDJ[63..0]
HDJ0
HDJ1
HDJ2
HDJ3
HDJ4
HDJ5
HDJ6
HDJ7
HDJ8
HDJ9
HDJ10
HDJ11
HDJ12
HDJ13
HDJ14
HDJ15
HDBIJ0
HDSTBNJ0
HDSTBPJ0
HDBIJ1
HDSTBNJ1
HDSTBPJ1
HDJ16
HDJ17
HDJ18
HDJ19
HDJ20
HDJ21
HDJ22
HDJ23
HDJ24
HDJ25
HDJ26
HDJ27
HDJ28
HDJ29
HDJ30
HDJ31
HDJ32
HDJ33
HDJ34
HDJ35
HDJ36
HDJ37
HDJ38
HDJ39
HDJ40
HDJ41
HDJ42
HDJ43
HDJ44
HDJ45
HDJ46
HDJ47
HDJ48
HDJ49
HDJ50
HDJ51
HDJ52
HDJ53
HDJ54
HDJ55
HDJ56
HDJ57
HDJ58
HDJ59
HDJ60
HDJ61
HDJ62
HDJ63
HDBIJ2
HDSTBNJ2
HDSTBPJ2
HDBIJ3
HDSTBNJ3
HDSTBPJ3
CPU_Socket
TBD
Pin D23
CRB 0.7: test point TP_VCCPLL
Pin AM5
CRB 0.7: test point TP_VID6
TBD
Pin AL2 PROCHOT#
CRB 0.7: pull up to VTT_OUT_RIGHT
DG/611A: example VR thermal monitor circuit
U33A
1 OF 7
HAJ[31..3]
HREQJ[4..0]
HADSTBJ0
HADSTBJ1
HAJ3
HAJ4
HAJ5
HAJ6
HAJ7
HAJ8
HAJ9
HAJ10
HAJ11
HAJ12
HAJ13
HAJ14
HAJ15
HAJ16
HAJ17
HAJ18
HAJ19
HAJ20
HAJ21
HAJ22
HAJ23
HAJ24
HAJ25
HAJ26
HAJ27
HAJ28
HAJ29
HAJ30
HAJ31
HREQJ0
HREQJ1
HREQJ2
HREQJ3
HREQJ4
TP_LAG775_PIN_AH4
TP_LAG775_PIN_AH5
TP_LAG775_PIN_AJ5
TP_LAG775_PIN_AJ6
HADSJ
HBNRJ
HITJ
TP_RSPJ
HBPRIJ
HDBSYJ
HDRDYJ
HITMJ
HIERRJ
INITJ
HLOCKJ
HTRDYJ
TP_BINITJ
HDEFERJ
TP_EDRDYJ
TP_MCERRJ
TP_APJ0
TP_APJ1
HBR0J
TESTHI_8
TESTHI_9
TESTHI_10
TP_DPJ0
TP_DPJ1
TP_DPJ2
TP_DPJ3
HGTLREF
HCPURSTJ
HRSJ0
HRSJ1
HRSJ2
GTLREF voltage should be 0.67*FSB_VTT
12 mils width, 15 mils spacing
divider should be within 1.5" of the GTLREF pin
caps should be placed near CPU pin
VTT_OUT_RIGHT
R813 100 +/-1% R0603
R814 210 +/-1% R0603
BC938 1uF 10V,Y5V,+80%/-20% C0603
BC939 220pF 50V,X7R,+/-10% C0603
Place at CPU end of route
TBD
HBR0J
CRB 0.7: 220 ohm, 5%
DG 0.51: 62 ohm, 5%
CPU_Socket
U33C
3 OF 7
SMIJ
A20MJ
FERRJ
INTR
NMI
IGNNEJ
STPCLKJ
HVCCA
HVSSA
TP_VCCPLL
HVCCIOPLL
VID0
VID1
VID2
VID3
VID4
VID5
TP_VID6
CPUCLK0
CPUCLK-0
SKTOCC#
THERMDA
THERMDC
TP17
TP18
TP_VCCSENSE
TP_VSSSENSE
VCC_SENSE
VSS_SENSE
Changed pin name from RSV
TESTHI_0
TESTHI_1
TESTHI_11
TESTHI_12
TESTHI_2_7
RSVD_AK6
RSVD_G6
CPUSLPJ
CPU_PWRG
PROCHOTJ
THERMTRIPJ
HCOMP0
HCOMP1
HCOMP2
HCOMP3
TP_RSVD_CPU_N5
TP_RSVD_CPU_AE6
TP_RSVD_CPU_C9
TP_RSVD_CPU_G10
TP_RSVD_CPU_D16
TP_RSVD_CPU_A20
TP22
TP23
TP24
CPU_BOOT
LL_ID0
LL_ID1
TP25
TBD
Pin AK6, G6
refer to CRB 0.7
TBD
Pin N5 ~ Pin J3
CRB 0.7: connections ok?
FSB_VTT
VTT_OUT_LEFT
VTT_OUT_RIGHT
RN80
8P4R0603
RN81
R817 62 Dummy TESTHI_0
R818 62 TESTHI_2_7
R825 62 TESTHI_11
R826 62 TESTHI_12
R827 100 CPU_PWRG
R828 62 HCPURSTJ
R829 62 HBR0J
R830 62 DUMMY RSVD_G6
R831 62 CPU_BOOT
R837 680 +/-5% VID0
680 +/-5% VID3
680 +/-5% VID2
680 +/-5% VID4
680 +/-5% VID1
680 +/-5% VID5
R842 Dummy RSVD_AK6
10 mils width
7 mils spacing
R815 100 HCOMP2
R816 100 HCOMP3
R819 60.4 HCOMP0
R820 60.4 HCOMP1
R821 62 HIERRJ
R822 62 THERMTRIPJ
R823 130 PROCHOTJ
R824 62 FERRJ
INTEL THERMTRIPJ, FERRJ PULL HIGH FSB_VTT
R832 56 A20MJ
R833 56 STPCLKJ
R834 56 CPUSLPJ
R835 56 SMIJ
R836 56 INITJ
R838 56 IGNNEJ
R839 56 INTR
R840 56 NMI
NEAR CPU
HCPURSTJ
BC940 22pF C0603
BC4 0.1uF C0603 25V, Y5V, +80%/-20%
BC5 0.1uF C0603 25V, Y5V, +80%/-20%
BC8 0.1uF C0603 25V, Y5V, +80%/-20%
BC7 1uF C0805 16V, X7R, +/-10%
BC6 0.1uF 25V, Y5V, +80%/-20% C0603
FOXCONN TECHNOLOGY COPR.
Title
Clock Distribution
Document Number
661M05
Rev
A
Date: Saturday, October 09, 2004
Sheet 5 of 42



Title	LGA775 -2
Size	Document Number 661M05
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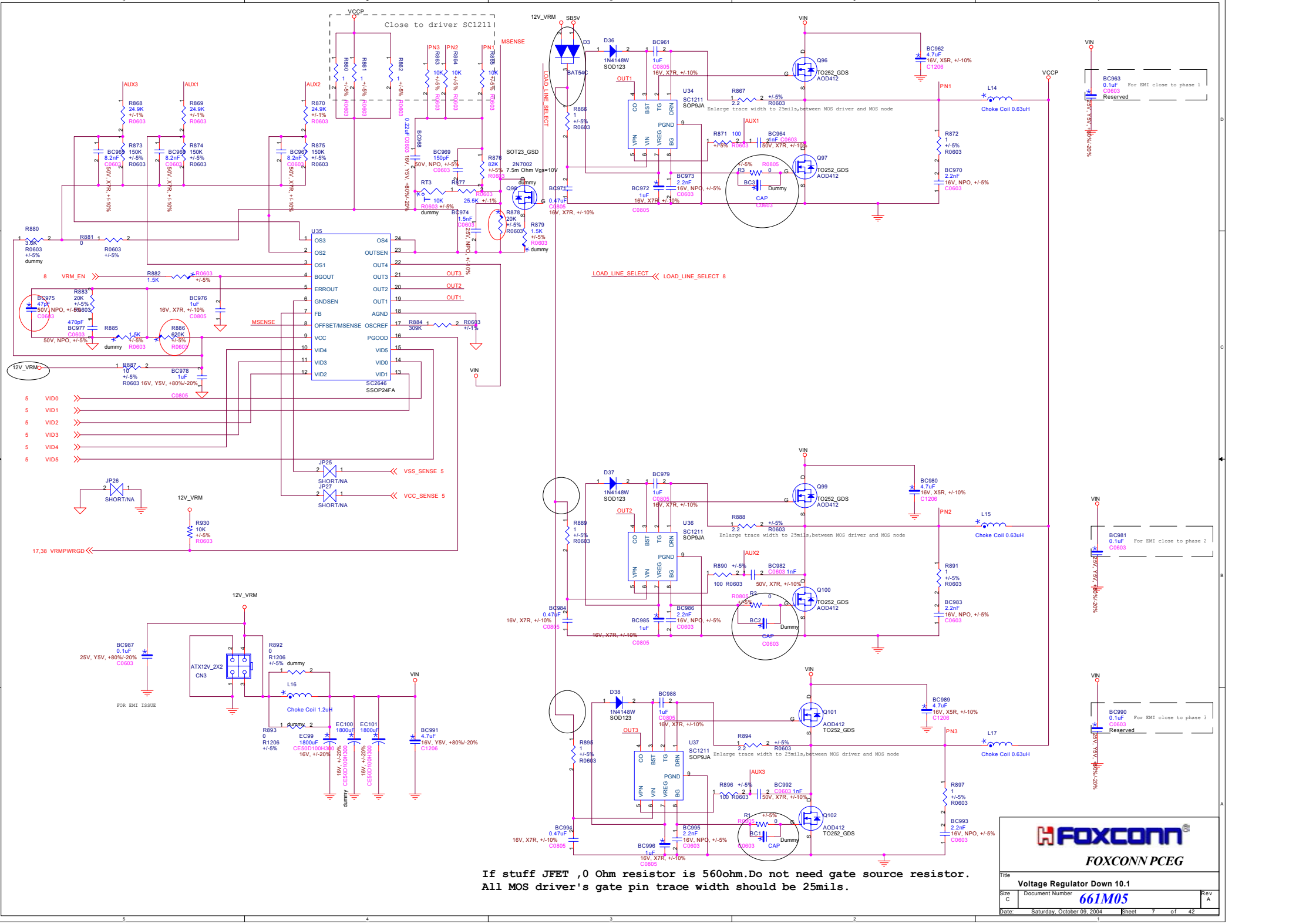
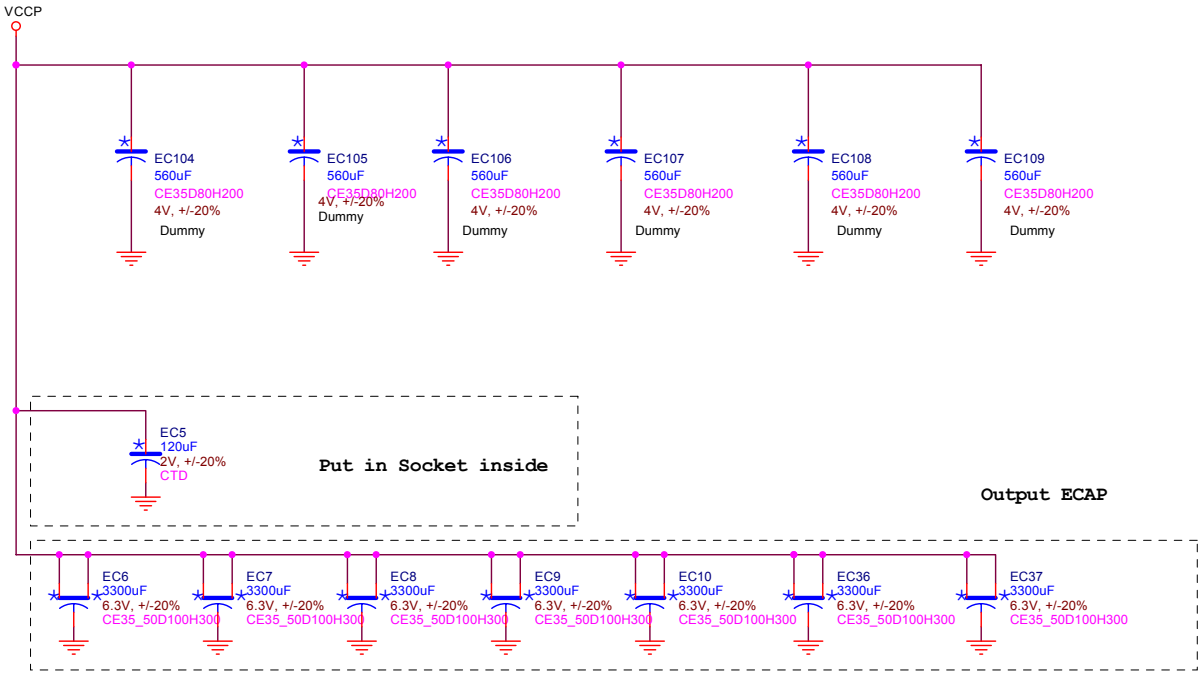
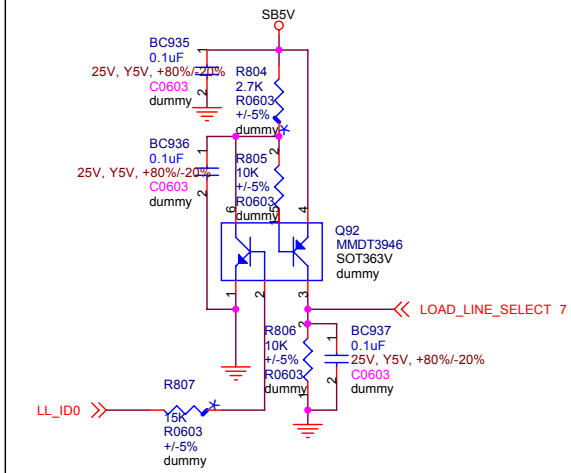
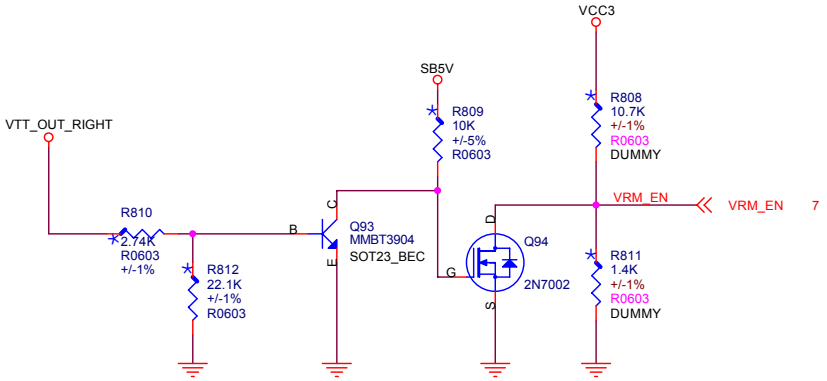
FOXCONN PCEG


Close to driver SC1211
SC2646 SSOP24FA
SC1211 SOP9JA
TO252_GDS AOD412
AOD412 TO252_GDS
ATX12V_2X2 CN3
FOR EMI ISSUE
SHORT/NA
Choke Coil 0.63uH
Choke Coil 1.2uH
Enlarge trace width to 25mils,between MOS driver and MOS node
If stuff JFET ,0 Ohm resistor is 560ohm.Do not need gate source resistor.
All MOS driver's gate pin trace width should be 25mils.
FOXCONN PCEG
Voltage Regulator Down 10.1
661M05
Saturday, October 09, 2004







For delay VRD_EN that after VTT_PWRGD is OK.

FOXCONN TECHNOLOGY COPR.

Title: Output CAP

Document Number: 661M05

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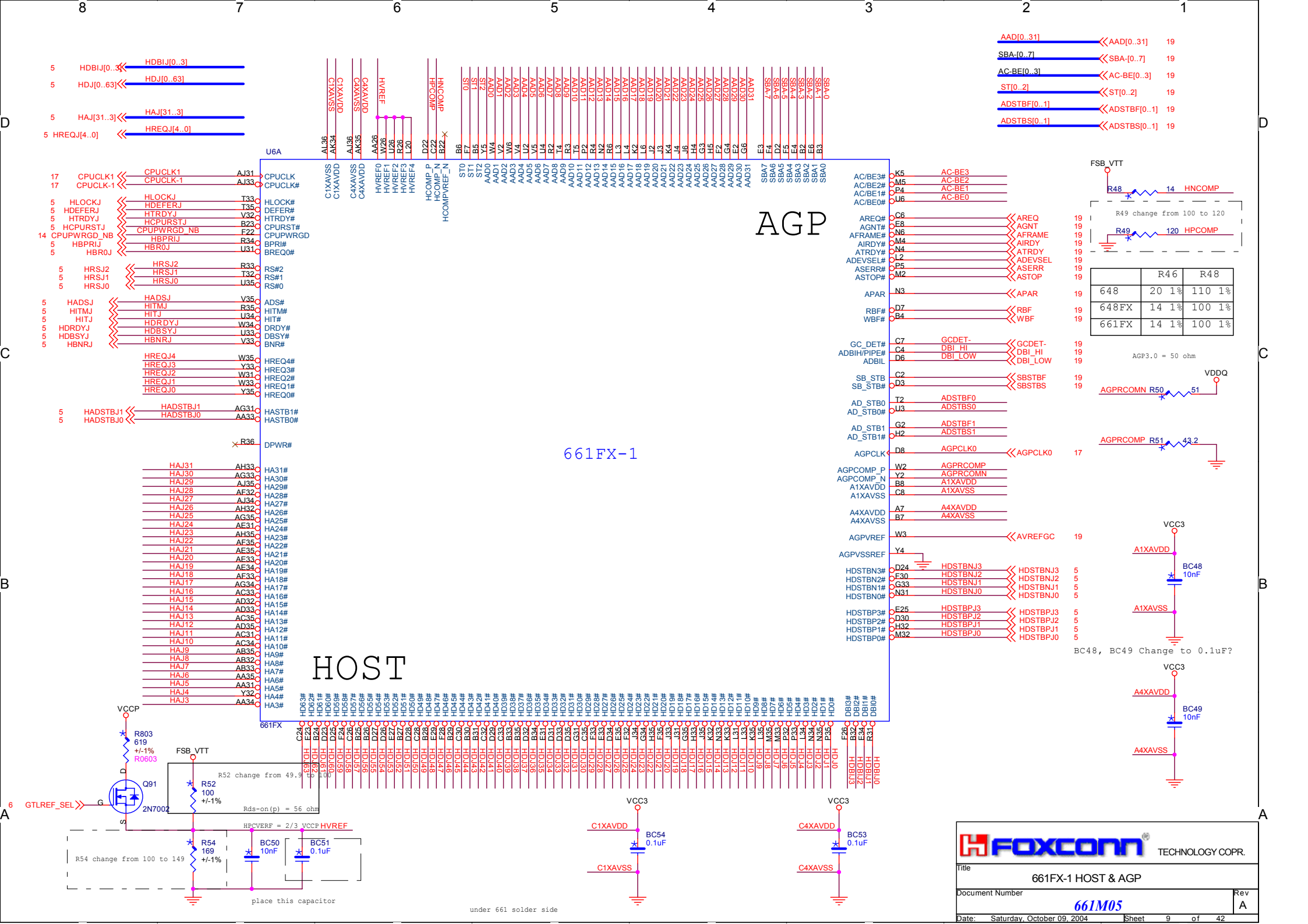
HOST
661FX
U6A
661FX-1
AGP
HDBIJ[0..3]
HDJ[0..63]
HAJ[31..3]
HREQJ[4..0]
AAD[0..31]
SBA-[0..7]
AC-BE[0..3]
ST[0..2]
ADSTBF[0..1]
ADSTBS[0..1]
CPUCLK1
CPUCLK-1
HLOCKJ
HDEFERJ
HTRDYJ
HCPURSTJ
CPUPWRGD_NB
HBPRIJ
HBR0J
HRSJ2
HRSJ1
HRSJ0
HADSJ
HITMJ
HITJ
HDRDYJ
HDBSYJ
HBNRJ
HREQJ4
HREQJ3
HREQJ2
HREQJ1
HREQJ0
HADSTBJ1
HADSTBJ0
R36
DPWR#
HAJ31
HAJ30
HAJ29
HAJ28
HAJ27
HAJ26
HAJ25
HAJ24
HAJ23
HAJ22
HAJ21
HAJ20
HAJ19
HAJ18
HAJ17
HAJ16
HAJ15
HAJ14
HAJ13
HAJ12
HAJ11
HAJ10
HAJ9
HAJ8
HAJ7
HAJ6
HAJ5
HAJ4
HAJ3
AC/BE3#
AC/BE2#
AC/BE1#
AC/BE0#
AREQ#
AGNT#
AFRAME#
AIRDY#
ATRDY#
ADEVSEL#
ASERR#
ASTOP#
APAR
RBF#
WBF#
GC_DET#
ADBIH/PIPE#
ADBIL
SB_STB
SB_STB#
AD_STB0
AD_STB0#
AD_STB1
AD_STB1#
AGPCLK
AGPCOMP_P
AGPCOMP_N
A1XAVDD
A1XAVSS
A4XAVDD
A4XAVSS
AGPVREF
AGPVSSREF
HDSTBN3#
HDSTBN2#
HDSTBN1#
HDSTBN0#
HDSTBP3#
HDSTBP2#
HDSTBP1#
HDSTBP0#
GCDET-
DBI_HI
DBI_LOW
SBSTBF
SBSTBS
ADSTBF0
ADSTBS0
ADSTBF1
ADSTBS1
AGPCLK0
AGPRCOMP
AGPRCOMN
AVREFGC
HDSTBNJ3
HDSTBNJ2
HDSTBNJ1
HDSTBNJ0
HDSTBPJ3
HDSTBPJ2
HDSTBPJ1
HDSTBPJ0
FSB_VTT
R48 14 HNCOMP
R49 change from 100 to 120
R49 120 HPCOMP
R46 R48
648 20 1% 110 1%
648FX 14 1% 100 1%
661FX 14 1% 100 1%
AGP3.0 = 50 ohm
VDDQ
AGPRCOMN R50 51
AGPRCOMP R51 43.2
VCC3
A1XAVDD
BC48 10nF
A1XAVSS
BC48, BC49 Change to 0.1uF?
A4XAVDD
BC49 10nF
A4XAVSS
VCCP
R803 619 +/-1% R0603
FSB_VTT
R52 change from 49.9 to 100
Q91 2N7002
GTLREF_SEL
R52 100 +/-1%
Rds-on(p) = 56 ohm
HPCVERF = 2/3 VCCP
HVREF
R54 169 +/-1%
R54 change from 100 to 149
BC50 10nF
BC51 0.1uF
place this capacitor
under 661 solder side
VCC3
C1XAVDD
BC54 0.1uF
C1XAVSS
VCC3
C4XAVDD
BC53 0.1uF
C4XAVSS
FOXCONN TECHNOLOGY COPR.
Title
661FX-1 HOST & AGP
Document Number
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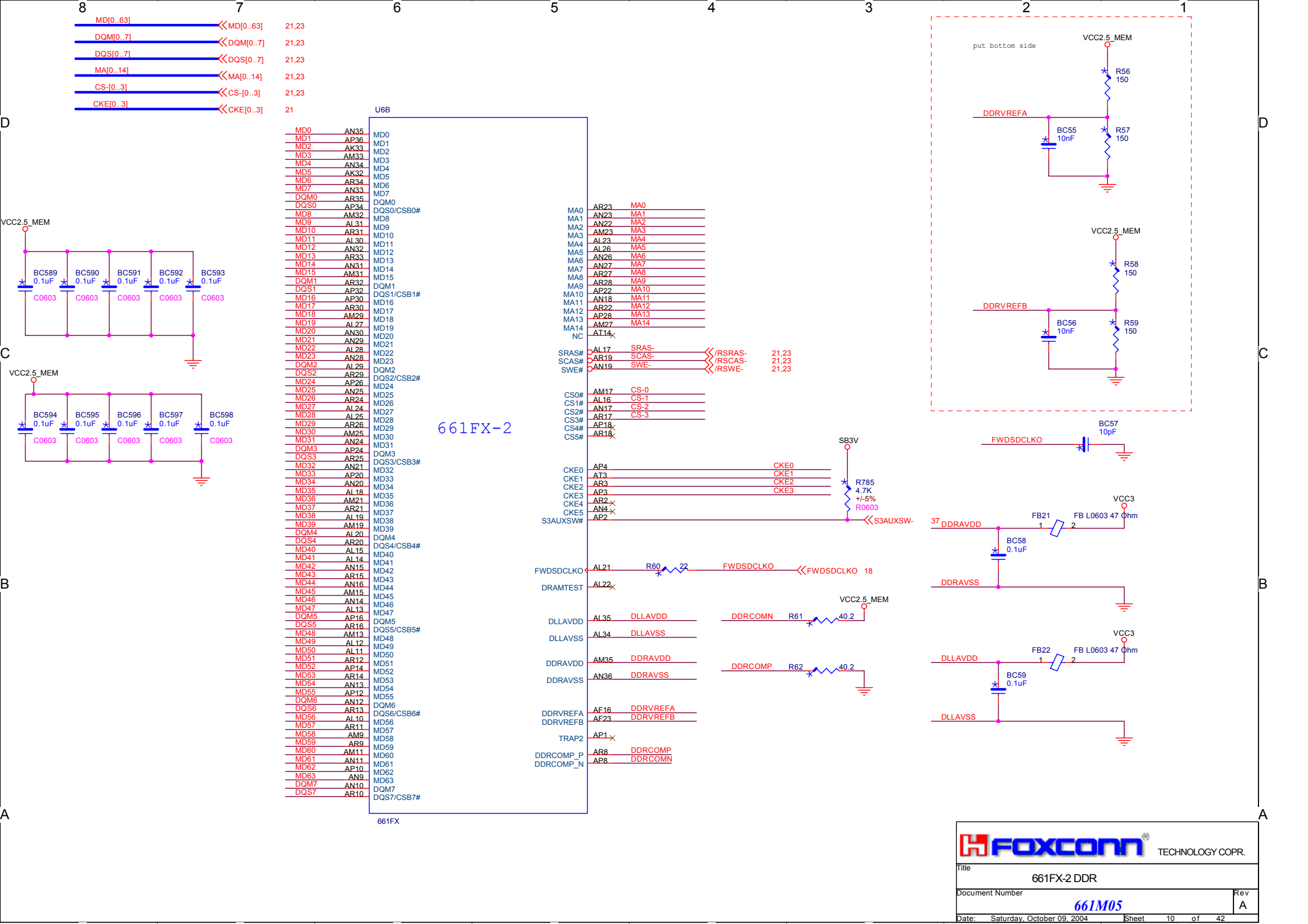

Title	661FX-2 DDR
Document Number	661M05
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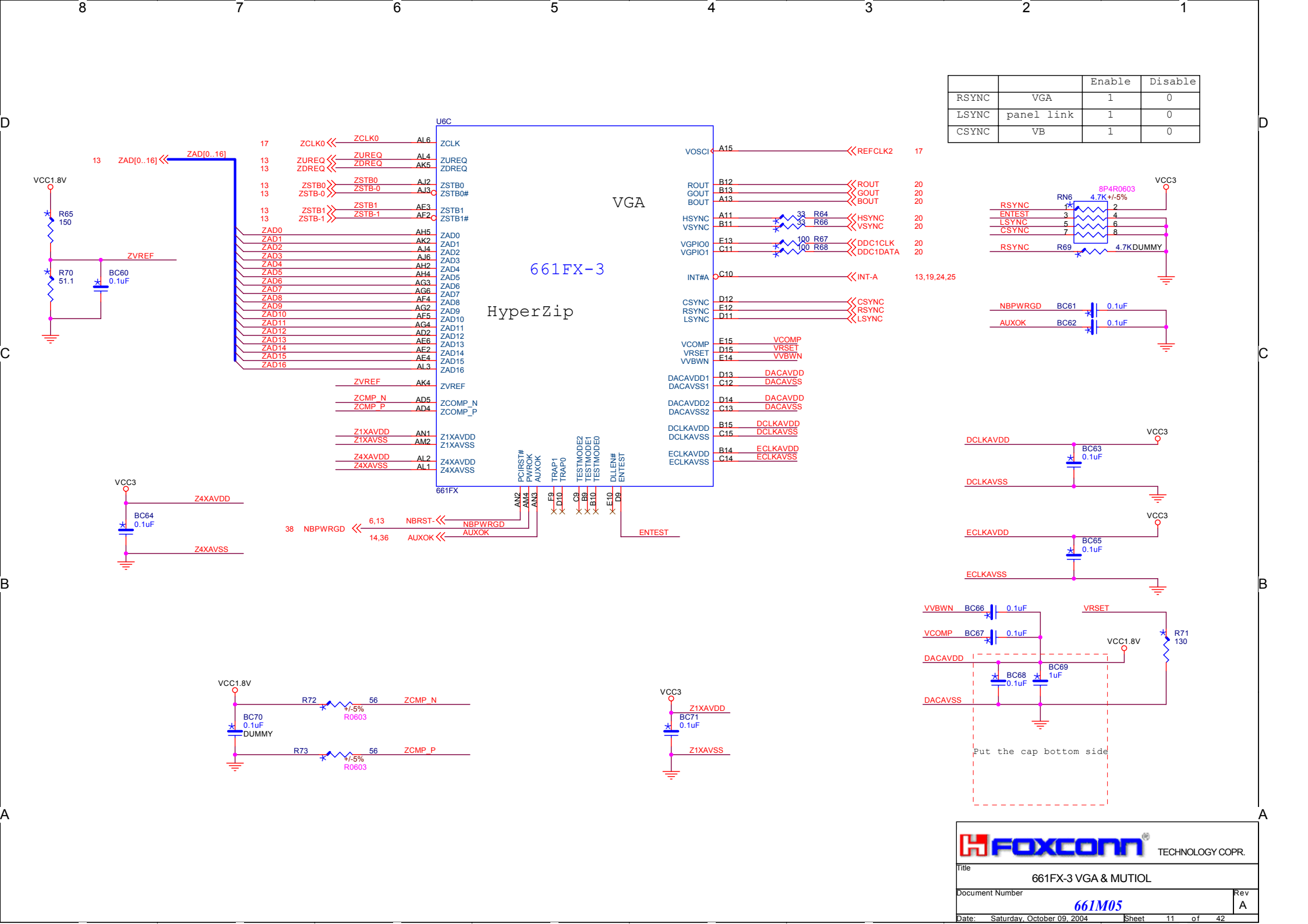
FOXCONN TECHNOLOGY COPR.



		Enable	Disable
RSYNC	VGA	1	0
LSYNC	panel link	1	0
CSYNC	VB	1	0

FOXCONN TECHNOLOGY COPR.

Title: 661FX-3 VGA & MUTIOL

Document Number: 661M05

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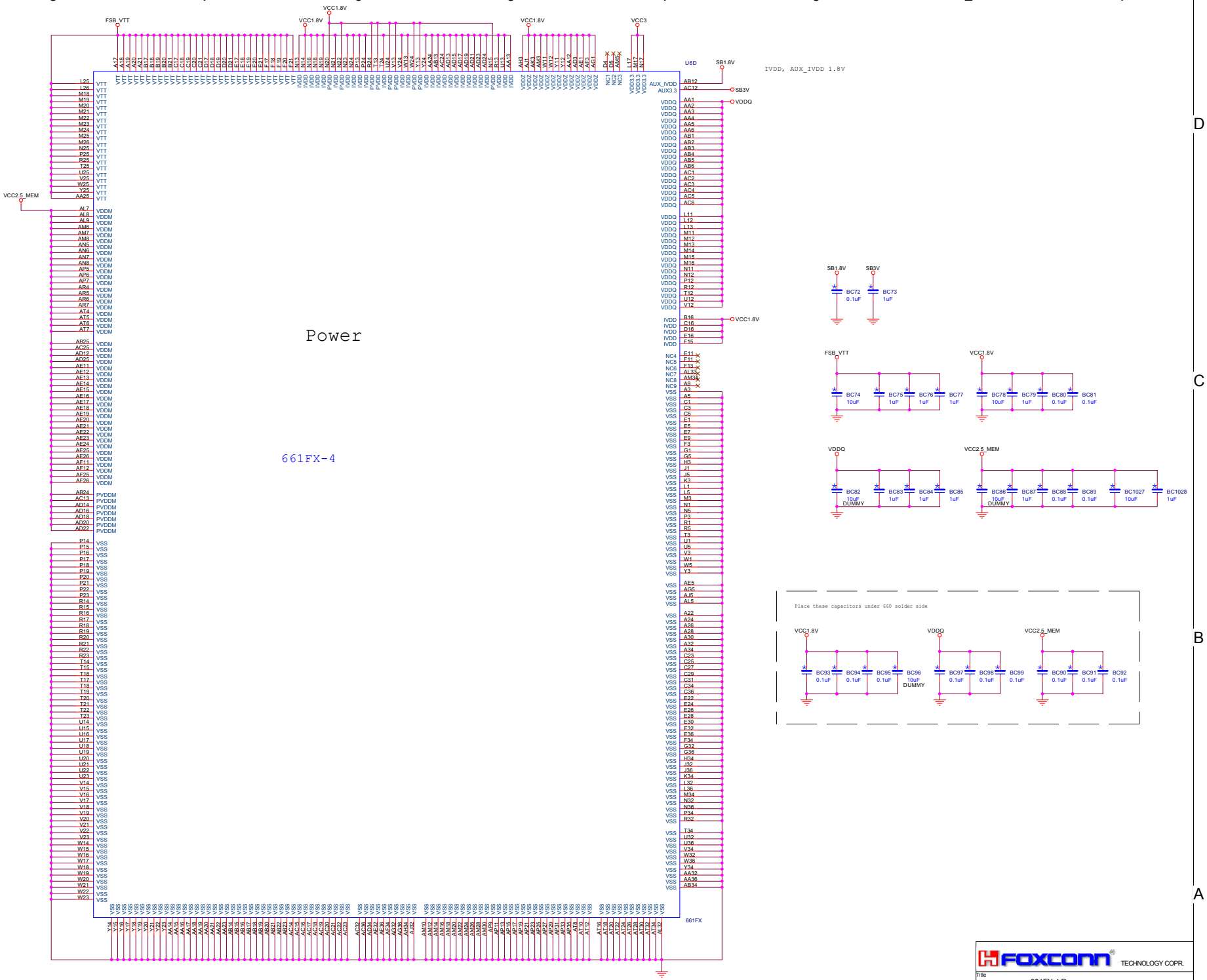
Power
661FX-4
661FX
IVDD, AUX_IVDD 1.8V
Place these capacitors under 660 solder side
DUMMY
FOXCONN TECHNOLOGY COPR.
Title
661FX-4 Power
Document Number
661M05
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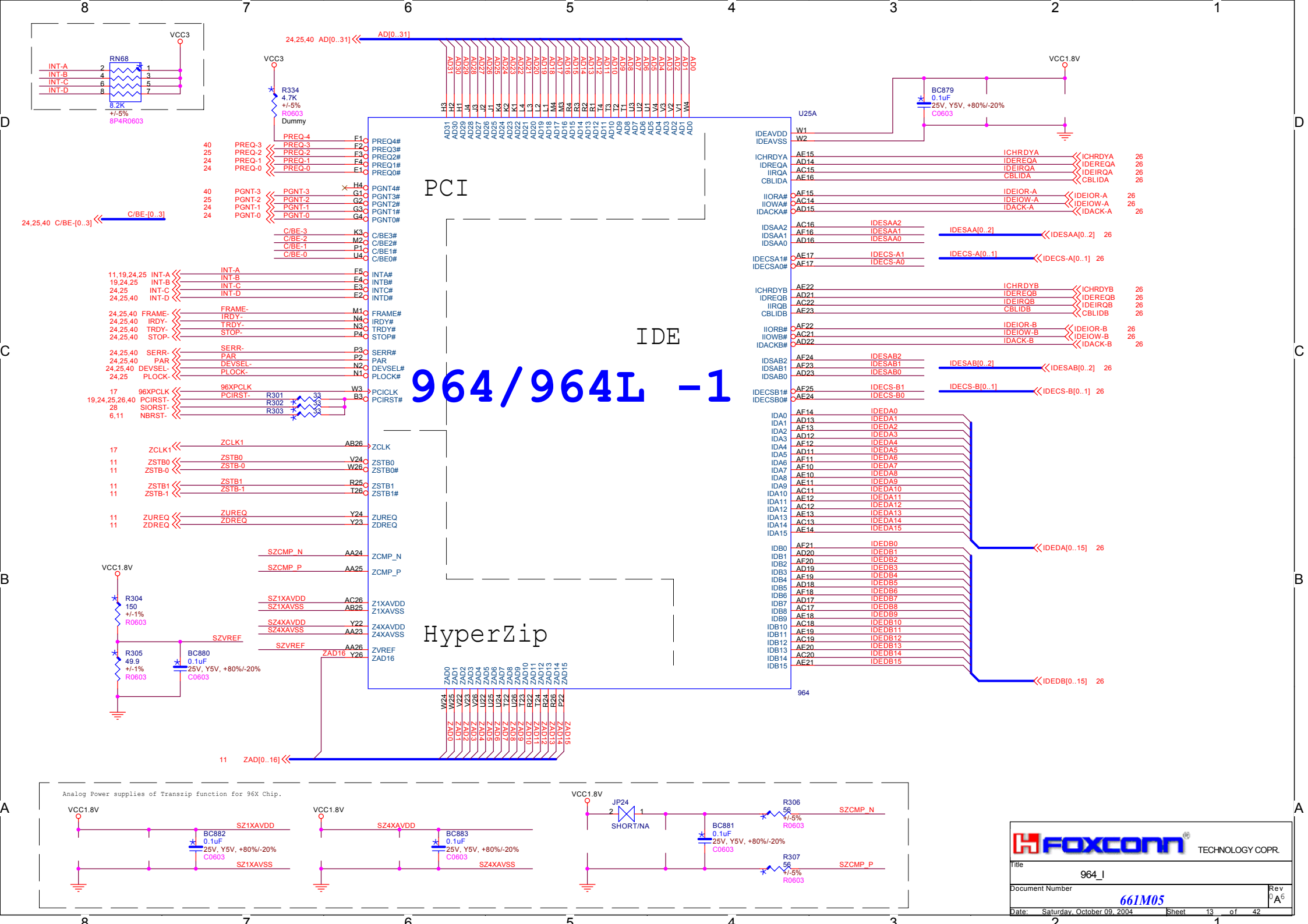
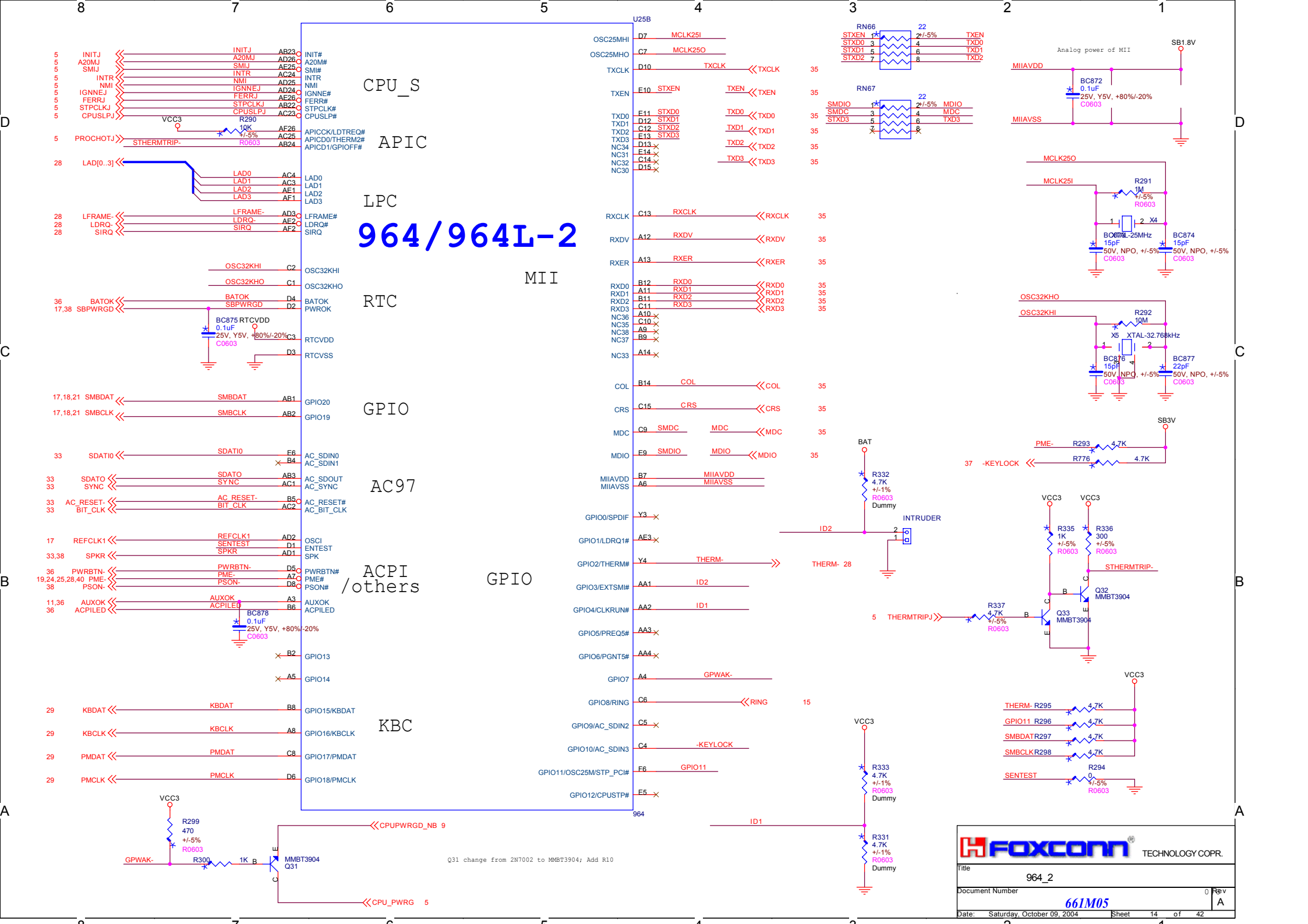

964/964L -1
PCI
IDE
HyperZip
U25A
964
RN68
8P4R0603
8.2K
+/-5%
R334
4.7K
+/-5%
R0603
Dummy
R304
150
+/-1%
R305
49.9
+/-1%
R301
R302
R303
33
BC879
0.1uF
25V, Y5V, +80%/-20%
C0603
BC880
BC881
BC882
BC883
JP24
SHORT/NA
R306
R307
56
Analog Power supplies of Transzip function for 96X Chip.
VCC3
VCC1.8V
SZVREF
SZ1XAVDD
SZ1XAVSS
SZ4XAVDD
SZ4XAVSS
SZCMP_N
SZCMP_P
ZAD16
ZAD[0..16]
AD[0..31]
C/BE-[0..3]
INT-A
INT-B
INT-C
INT-D
FRAME-
IRDY-
TRDY-
STOP-
SERR-
PAR
DEVSEL-
PLOCK-
96XPCLK
PCIRST-
NBRST-
SIORST-
ZCLK1
ZSTB0
ZSTB-0
ZSTB1
ZSTB-1
ZUREQ
ZDREQ
IDEA[0..15]
IDEDB[0..15]
IDESAA[0..2]
IDECS-A[0..1]
IDESAB[0..2]
IDECS-B[0..1]
PREQ-4
PREQ-3
PREQ-2
PREQ-1
PREQ-0
PGNT-3
PGNT-2
PGNT-1
PGNT-0
FOXCONN
TECHNOLOGY COPR.
Title
964_I
Document Number
661M05
Rev
A6
Date: Saturday, October 09, 2004
Sheet 13 of 42


964/964L-2
CPU_S
APIC
LPC
RTC
GPIO
AC97
ACPI /others
KBC
MII
GPIO
U25B
INIT#
A20M#
SMI#
INTR
NMI
IGNNE#
FERR#
STPCLK#
CPUSLP#
APICCK/LDTREQ#
APICD0/THERM2#
APICD1/GPIOFF#
LAD0
LAD1
LAD2
LAD3
LFRAME#
LDRQ#
SIRQ
OSC32KHI
OSC32KHO
BATOK
PWROK
RTCVDD
RTCVSS
GPIO20
GPIO19
AC_SDIN0
AC_SDIN1
AC_SDOUT
AC_SYNC
AC_RESET#
AC_BIT_CLK
OSCI
ENTEST
SPK
PWRBTN#
PME#
PSON#
AUXOK
ACPILED
GPIO13
GPIO14
GPIO15/KBDAT
GPIO16/KBCLK
GPIO17/PMDAT
GPIO18/PMCLK
OSC25MHI
OSC25MHO
TXCLK
TXEN
TXD0
TXD1
TXD2
TXD3
RXCLK
RXDV
RXER
RXD0
RXD1
RXD2
RXD3
COL
CRS
MDC
MDIO
MIIAVDD
MIIAVSS
GPIO0/SPDIF
GPIO1/LDRQ1#
GPIO2/THERM#
GPIO3/EXTSMI#
GPIO4/CLKRUN#
GPIO5/PREQ5#
GPIO6/PGNT5#
GPIO7
GPIO8/RING
GPIO9/AC_SDIN2
GPIO10/AC_SDIN3
GPIO11/OSC25M/STP_PCI#
GPIO12/CPUSTP#
964
INITJ
A20MJ
SMIJ
INTR
NMI
IGNNEJ
FERRJ
STPCLKJ
CPUSLPJ
PROCHOTJ
STHERMTRIP-
R290
10K
+/-5%
R0603
LAD[0..3]
LFRAME-
LDRQ-
SIRQ
BATOK
SBPWRGD
BC875
0.1uF
25V, Y5V, +80%/-20%
C0603
SMBDAT
SMBCLK
SDATI0
SDATO
SYNC
AC_RESET-
BIT_CLK
REFCLK1
SENTEST
SPKR
PWRBTN-
PME-
PSON-
AUXOK
ACPILED
BC878
0.1uF
25V, Y5V, +80%-20%
C0603
KBDAT
KBCLK
PMDAT
PMCLK
VCC3
R299
470
+/-5%
R0603
GPWAK-
R300
1K
MMBT3904
Q31
CPUPWRGD_NB 9
CPU_PWRG 5
Q31 change from 2N7002 to MMBT3904; Add R10
RN66
22
+/-5%
STXEN
STXD0
STXD1
STXD2
TXEN
TXD0
TXD1
TXD2
RN67
SMDIO
SMDC
STXD3
MDIO
MDC
TXD3
Analog power of MII
SB1.8V
MIIAVDD
MIIAVSS
BC872
0.1uF
25V, Y5V, +80%/-20%
C0603
MCLK25O
MCLK25I
R291
1M
+/-5%
R0603
X4
XTAL-25MHz
BC873
15pF
50V, NPO, +/-5%
C0603
BC874
15pF
50V, NPO, +/-5%
C0603
OSC32KHO
OSC32KHI
R292
10M
X5
XTAL-32.768kHz
BC876
15pF
50V, NPO, +/-5%
C0603
BC877
22pF
50V, NPO, +/-5%
C0603
SB3V
PME-
R293
4.7K
R776
4.7K
-KEYLOCK
BAT
R332
4.7K
+/-1%
R0603
Dummy
ID2
INTRUDER
THERM-
R335
1K
+/-5%
R0603
R336
300
+/-5%
R0603
STHERMTRIP-
Q32
MMBT3904
Q33
MMBT3904
THERMTRIPJ
R337
4.7K
+/-5%
R0603
THERM- R295
GPIO11 R296
SMBDAT R297
SMBCLK R298
SENTEST
R294
0
+/-5%
R0603
R333
4.7K
+/-1%
R0603
Dummy
ID1
R331
4.7K
+/-1%
R0603
Dummy
FOXCONN
TECHNOLOGY COPR.
Title
964_2
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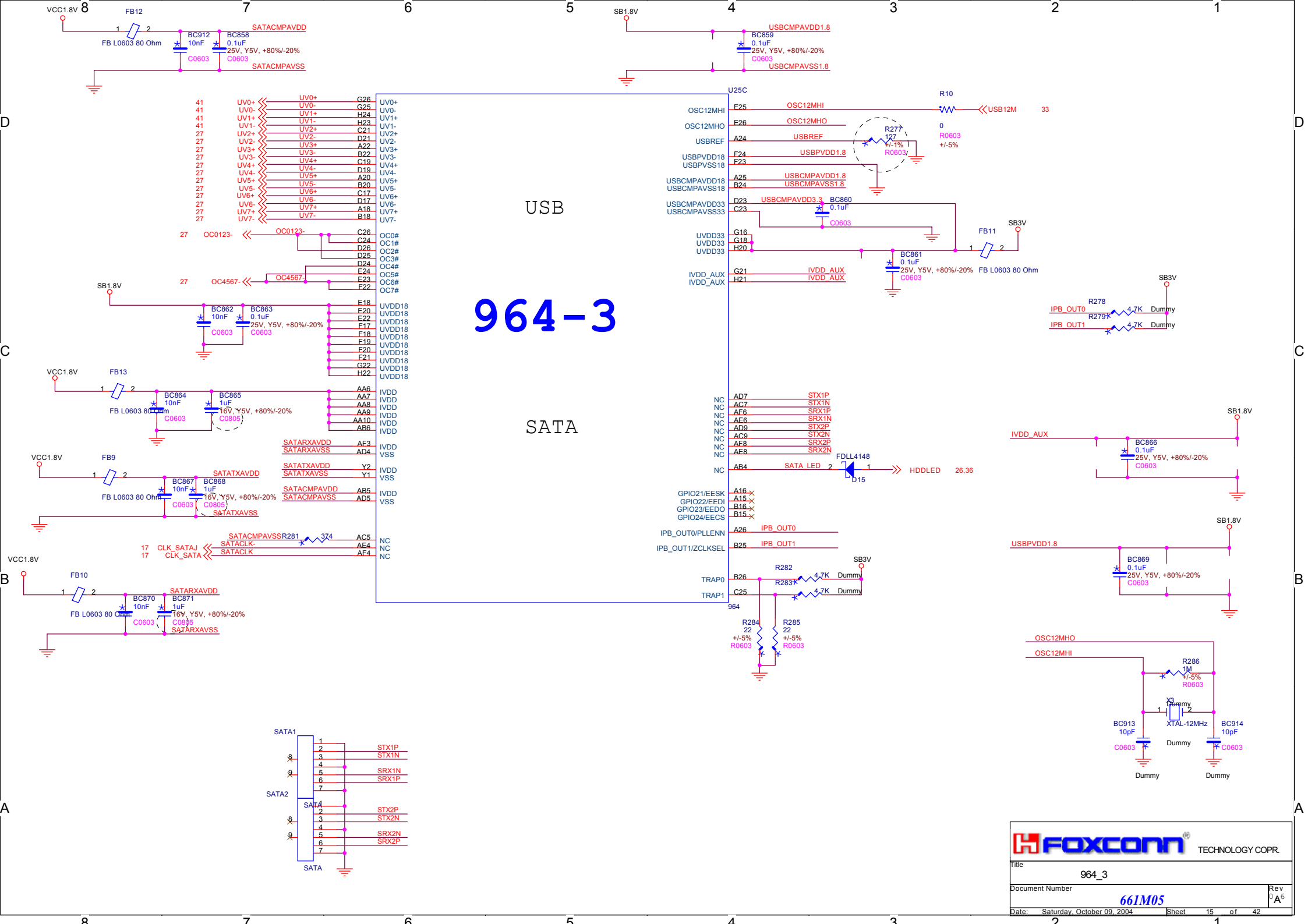
964-3
USB
SATA
U25C
VCC1.8V
SB1.8V
SB3V
FB12
FB L0603 80 Ohm
SATACMPAVDD
SATACMPAVSS
USBCMPAVDD1.8
USBCMPAVSS1.8
BC912 10nF C0603
BC858 0.1uF 25V, Y5V, +80%/-20% C0603
BC859 0.1uF 25V, Y5V, +80%/-20% C0603
UV0+ UV0- UV1+ UV1- UV2+ UV2- UV3+ UV3- UV4+ UV4- UV5+ UV5- UV6+ UV6- UV7+ UV7-
OC0123- OC4567-
OC0# OC1# OC2# OC3# OC4# OC5# OC6# OC7#
UVDD18
IVDD
VSS
NC
OSC12MHI OSC12MHO USBREF USBPVDD18 USBPVSS18 USBCMPAVDD18 USBCMPAVSS18 USBCMPAVDD33 USBCMPAVSS33 UVDD33 IVDD_AUX
R10 33 USB12M
R277 127 +/-1% R0603
0 R0603 +/-5%
BC860 0.1uF C0603
BC861 0.1uF 25V, Y5V, +80%/-20% C0603
FB11 FB L0603 80 Ohm
R278 4.7K Dummy
R279 4.7K Dummy
IPB_OUT0 IPB_OUT1
BC862 10nF C0603
BC863 0.1uF 25V, Y5V, +80%/-20% C0603
FB13
BC864 10nF C0603
BC865 1uF 16V, Y5V, +80%/-20% C0805
FB9
BC867 10nF C0603
BC868 1uF 16V, Y5V, +80%/-20% C0805
SATARXAVDD SATARXAVSS SATATXAVDD SATATXAVSS SATACMPAVDD SATACMPAVSS
SATACLK- SATACLK
CLK_SATAJ CLK_SATA
R281 374
FB10
BC870 10nF C0603
BC871 1uF 16V, Y5V, +80%/-20% C0805
AD7 AC7 AF6 AE6 AD9 AC9 AF8 AE8 AB4
STX1P STX1N SRX1P SRX1N STX2P STX2N SRX2P SRX2N SATA_LED
FDLL4148 D15
HDDLED 26,36
GPIO21/EESK GPIO22/EEDI GPIO23/EEDO GPIO24/EECS
IPB_OUT0/PLLENN IPB_OUT1/ZCLKSEL
TRAP0 TRAP1
R282 4.7K Dummy
R283 4.7K Dummy
R284 22 +/-5% R0603
R285 22 +/-5% R0603
964
BC866 0.1uF 25V, Y5V, +80%/-20% C0603
BC869 0.1uF 25V, Y5V, +80%/-20% C0603
OSC12MHO OSC12MHI
R286 1M +/-5% R0603
X3 Dummy XTAL-12MHz
BC913 10pF C0603 Dummy
BC914 10pF C0603 Dummy
SATA1 SATA2 SATA
FOXCONN TECHNOLOGY COPR.
Title 964_3
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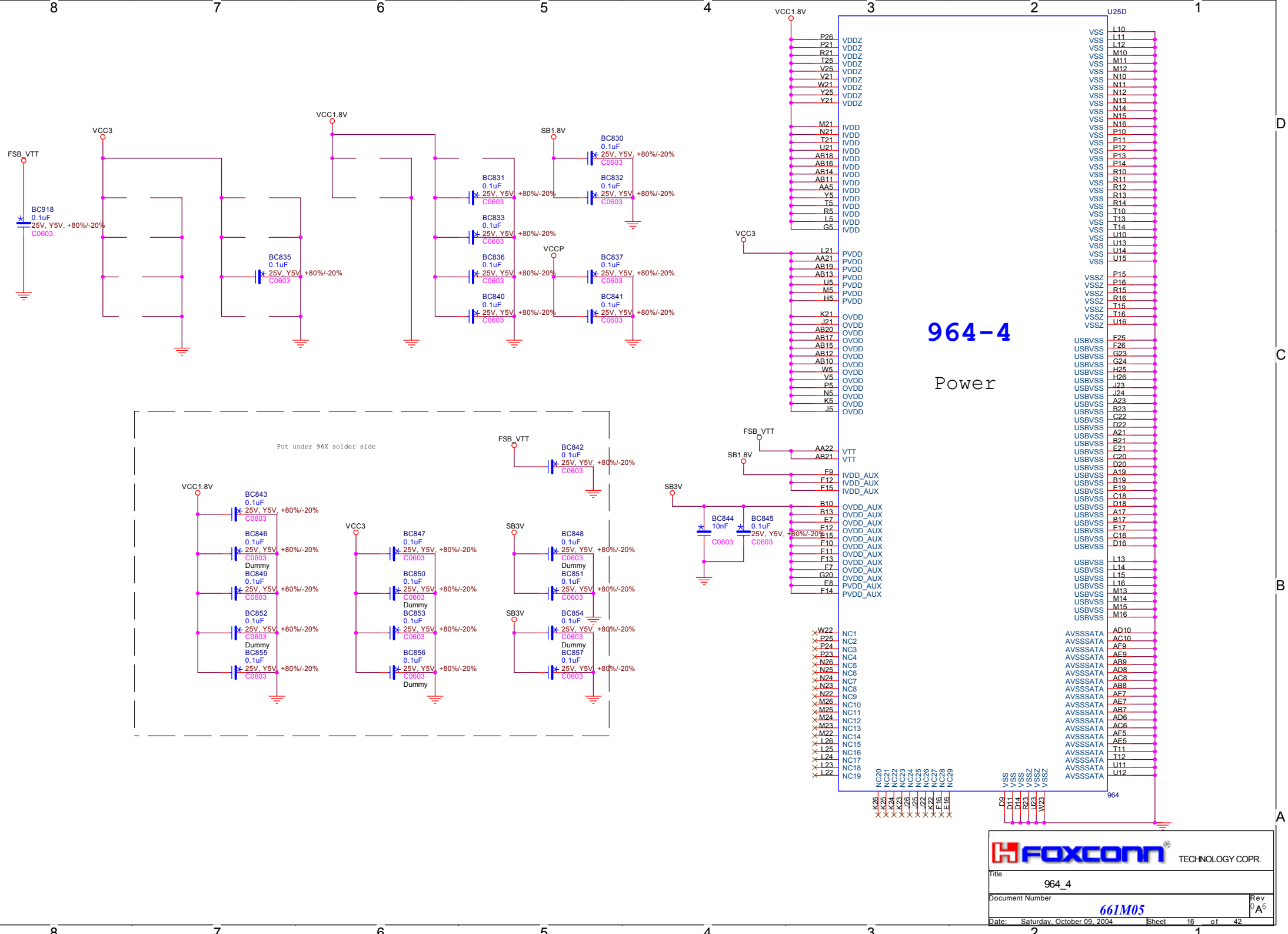
964-4
Power
U25D
964
Put under 96X solder side
FSB_VTT
VCC3
VCC1.8V
SB1.8V
SB3V
VCCP
BC918 0.1uF 25V, Y5V, +80%/-20% C0603
BC830 0.1uF 25V, Y5V, +80%/-20% C0603
BC831 0.1uF 25V, Y5V, +80%/-20% C0603
BC832 0.1uF 25V, Y5V, +80%/-20% C0603
BC833 0.1uF 25V, Y5V, +80%/-20% C0603
BC835 0.1uF 25V, Y5V, +80%/-20% C0603
BC836 0.1uF 25V, Y5V, +80%/-20% C0603
BC837 0.1uF 25V, Y5V, +80%/-20% C0603
BC840 0.1uF 25V, Y5V, +80%/-20% C0603
BC841 0.1uF 25V, Y5V, +80%/-20% C0603
BC842 0.1uF 25V, Y5V, +80%/-20% C0603
BC843 0.1uF 25V, Y5V, +80%/-20% C0603
BC844 10nF C0603
BC845 0.1uF 25V, Y5V, +80%/-20% C0603
BC846 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC847 0.1uF 25V, Y5V, +80%/-20% C0603
BC848 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC849 0.1uF 25V, Y5V, +80%/-20% C0603
BC850 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC851 0.1uF 25V, Y5V, +80%/-20% C0603
BC852 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC853 0.1uF 25V, Y5V, +80%/-20% C0603
BC854 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC855 0.1uF 25V, Y5V, +80%/-20% C0603
BC856 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
BC857 0.1uF 25V, Y5V, +80%/-20% C0603
P26 VDDZ
P21 VDDZ
R21 VDDZ
T25 VDDZ
V25 VDDZ
V21 VDDZ
W21 VDDZ
Y25 VDDZ
Y21 VDDZ
M21 IVDD
N21 IVDD
T21 IVDD
U21 IVDD
AB18 IVDD
AB16 IVDD
AB14 IVDD
AB11 IVDD
AA5 IVDD
Y5 IVDD
T5 IVDD
R5 IVDD
L5 IVDD
G5 IVDD
L21 PVDD
AA21 PVDD
AB19 PVDD
AB13 PVDD
U5 PVDD
M5 PVDD
H5 PVDD
K21 OVDD
J21 OVDD
AB20 OVDD
AB17 OVDD
AB15 OVDD
AB12 OVDD
AB10 OVDD
W5 OVDD
V5 OVDD
P5 OVDD
N5 OVDD
K5 OVDD
J5 OVDD
AA22 VTT
AB21 VTT
F9 IVDD_AUX
F12 IVDD_AUX
F15 IVDD_AUX
B10 OVDD_AUX
B13 OVDD_AUX
E7 OVDD_AUX
E12 OVDD_AUX
E15 OVDD_AUX
F10 OVDD_AUX
F11 OVDD_AUX
F13 OVDD_AUX
F7 OVDD_AUX
G20 OVDD_AUX
E8 PVDD_AUX
F14 PVDD_AUX
W22 NC1
P25 NC2
P24 NC3
P23 NC4
N26 NC5
N25 NC6
N24 NC7
N23 NC8
N22 NC9
M26 NC10
M25 NC11
M24 NC12
M23 NC13
M22 NC14
L26 NC15
L25 NC16
L24 NC17
L23 NC18
L22 NC19
NC20 K26
NC21 K25
NC22 K24
NC23 K23
NC24 J26
NC25 J25
NC26 J22
NC27 K22
NC28 F16
NC29 E16
VSS D9
VSS D11
VSS D14
VSSZ R23
VSSZ U23
VSSZ W23
VSS L10
VSS L11
VSS L12
VSS M10
VSS M11
VSS M12
VSS N10
VSS N11
VSS N12
VSS N13
VSS N14
VSS N15
VSS N16
VSS P10
VSS P11
VSS P12
VSS P13
VSS P14
VSS R10
VSS R11
VSS R12
VSS R13
VSS R14
VSS T10
VSS T13
VSS T14
VSS U10
VSS U13
VSS U14
VSS U15
VSSZ P15
VSSZ P16
VSSZ R15
VSSZ R16
VSSZ T15
VSSZ T16
VSSZ U16
USBVSS F25
USBVSS F26
USBVSS G23
USBVSS G24
USBVSS H25
USBVSS H26
USBVSS J23
USBVSS J24
USBVSS A23
USBVSS B23
USBVSS C22
USBVSS D22
USBVSS A21
USBVSS B21
USBVSS E21
USBVSS C20
USBVSS D20
USBVSS A19
USBVSS B19
USBVSS E19
USBVSS C18
USBVSS D18
USBVSS A17
USBVSS B17
USBVSS E17
USBVSS C16
USBVSS D16
USBVSS L13
USBVSS L14
USBVSS L15
USBVSS L16
USBVSS M13
USBVSS M14
USBVSS M15
USBVSS M16
AVSSSATA AD10
AVSSSATA AC10
AVSSSATA AF9
AVSSSATA AE9
AVSSSATA AB9
AVSSSATA AD8
AVSSSATA AC8
AVSSSATA AB8
AVSSSATA AE7
AVSSSATA AE7
AVSSSATA AB7
AVSSSATA AD6
AVSSSATA AC6
AVSSSATA AE5
AVSSSATA AE5
AVSSSATA T11
AVSSSATA T12
AVSSSATA U11
AVSSSATA U12
FOXCONN TECHNOLOGY COPR.
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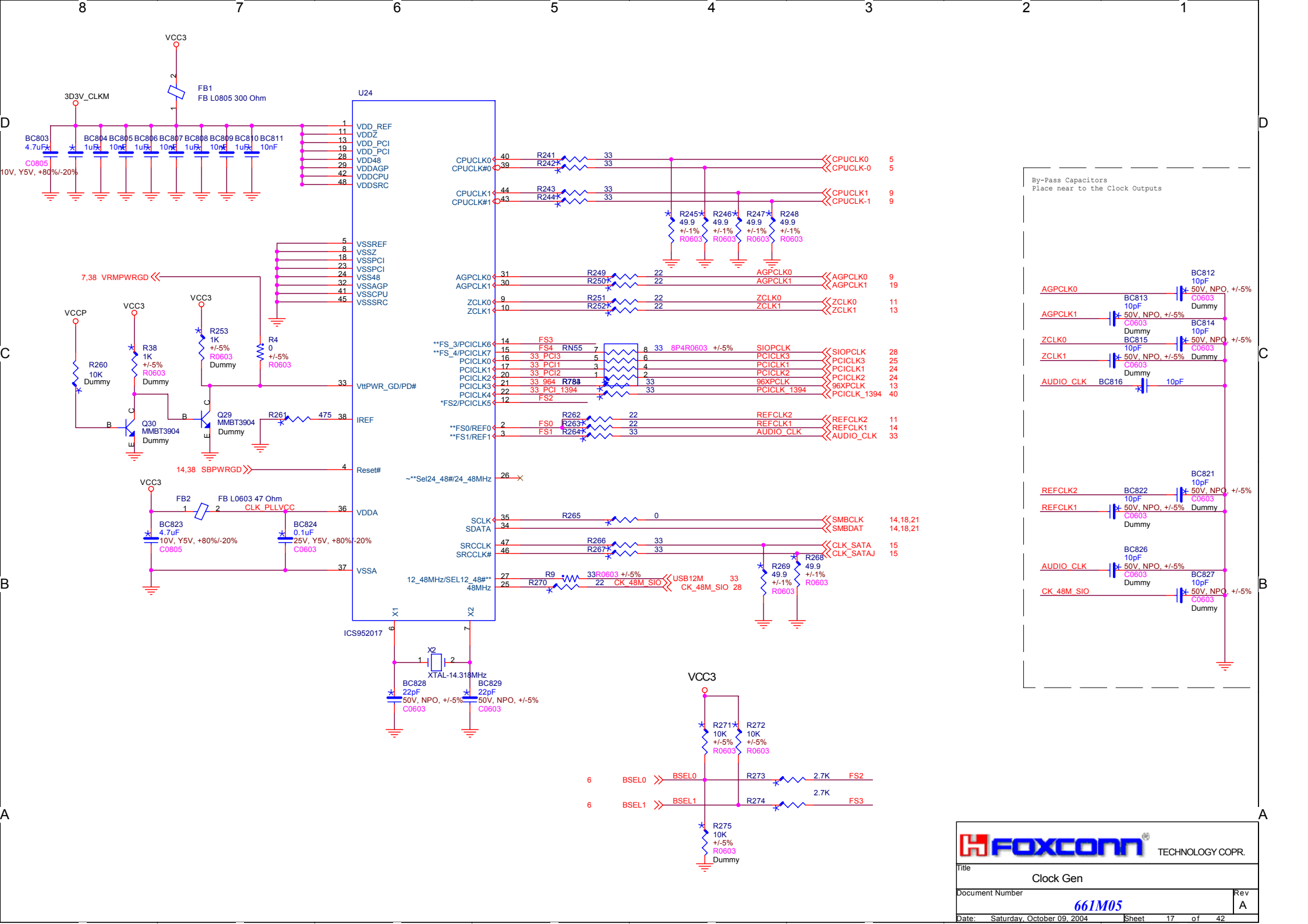

FOXCONN TECHNOLOGY COPR.

Title: Clock Gen

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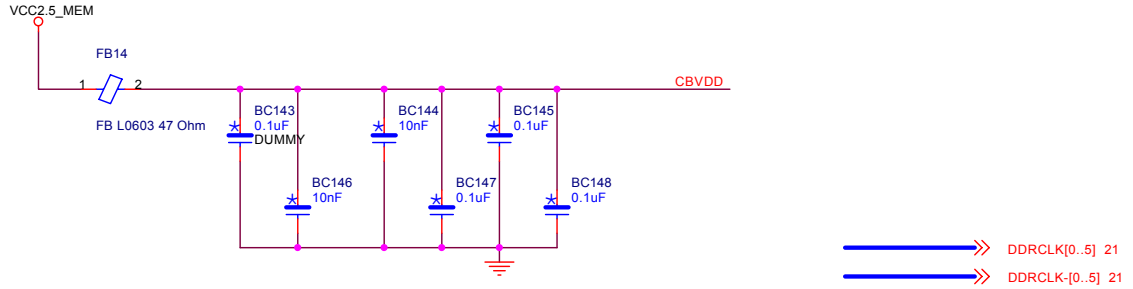
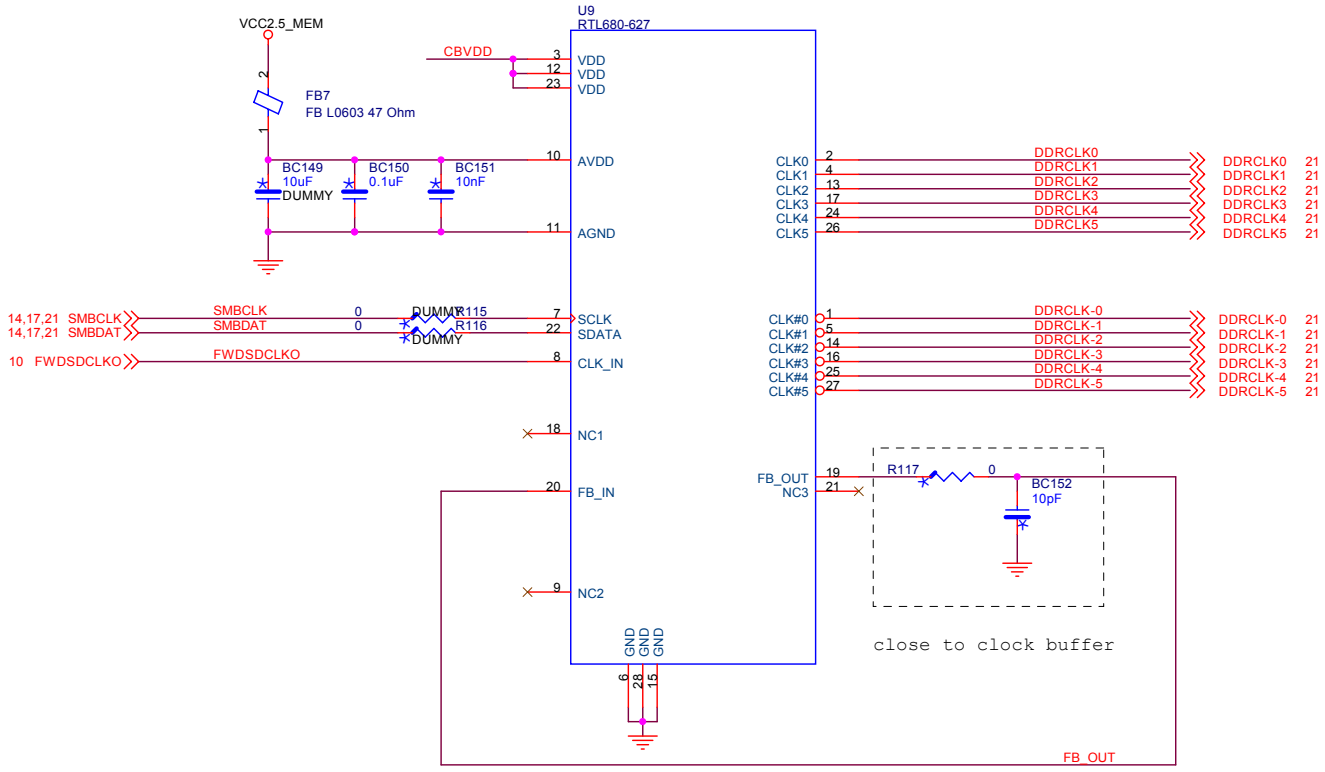


试用奥斯特的47u□婊□

Clock Buffer (DDR)



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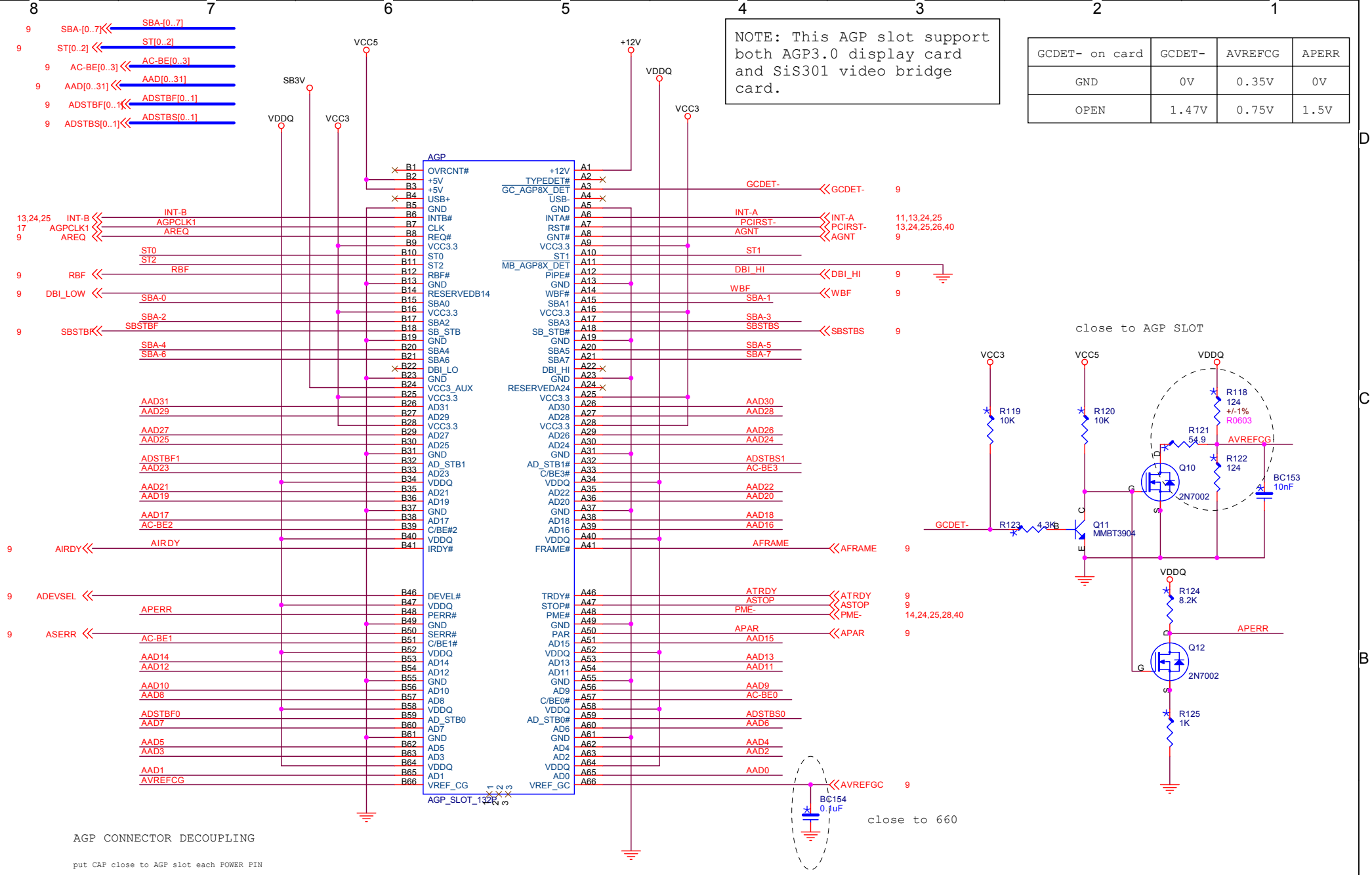
FOXCONN TECHNOLOGY COPR.

NOTE: This AGP slot support both AGP3.0 display card and SiS301 video bridge card.

GCDET- on card	GCDET-	AVREFCG	APERR
GND	0V	0.35V	0V
OPEN	1.47V	0.75V	1.5V



FOXCONN TECHNOLOGY COPR.

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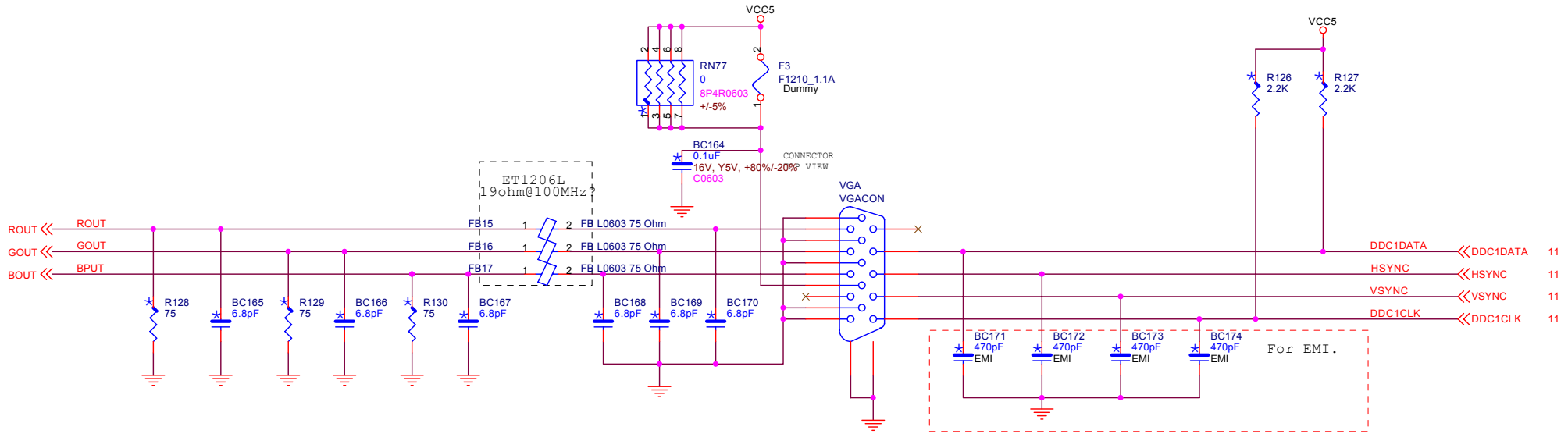
VGA CONNECTOR



close to GND gap

FOXCONN TECHNOLOGY COPR.

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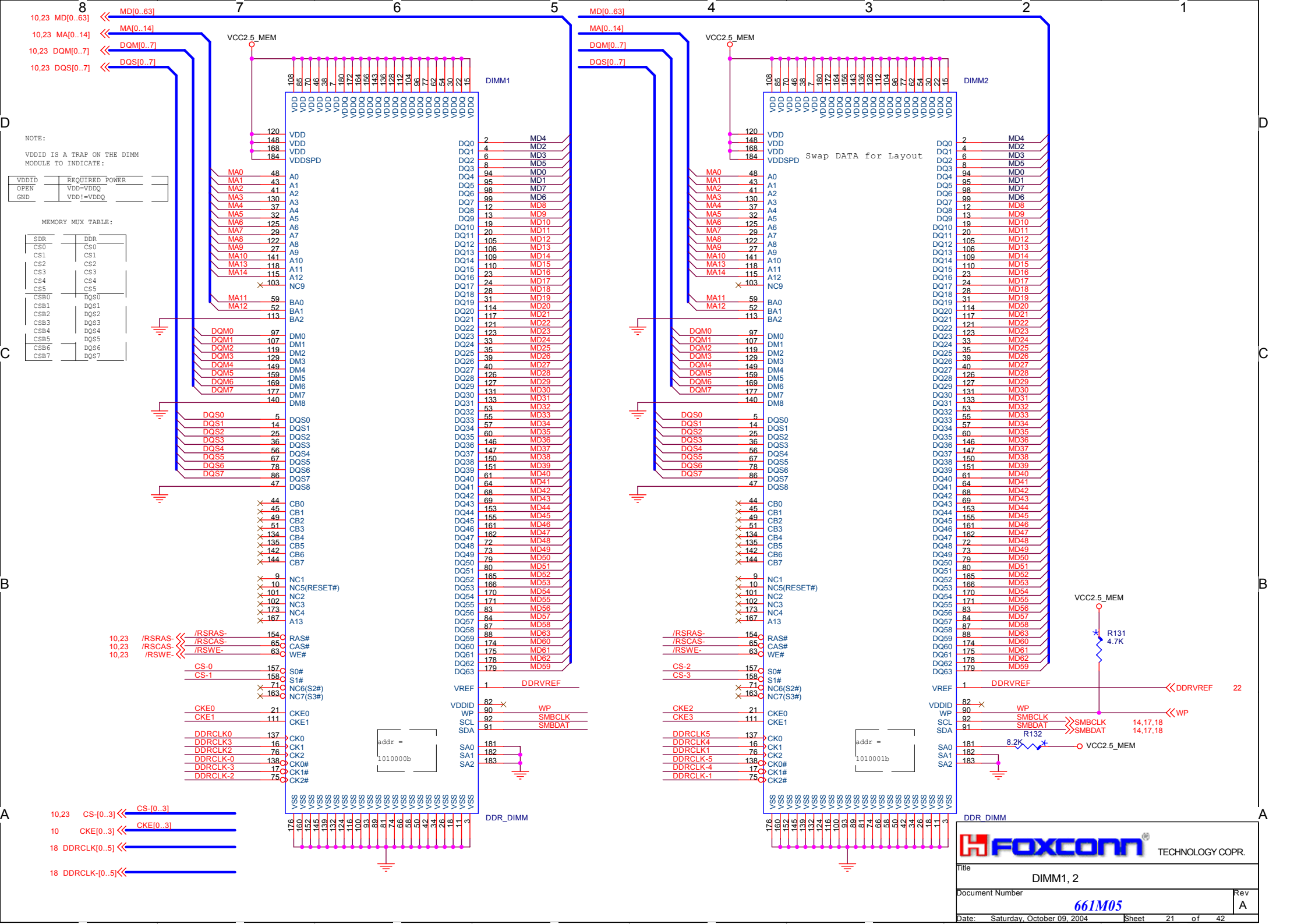
10,23 MD[0..63]
10,23 MA[0..14]
10,23 DQM[0..7]
10,23 DQS[0..7]
MD[0..63]
MA[0..14]
DQM[0..7]
DQS[0..7]
VCC2.5_MEM
DIMM1
DIMM2
NOTE:
VDDID IS A TRAP ON THE DIMM MODULE TO INDICATE:
VDDID | REQUIRED POWER
OPEN | VDD=VDDQ
GND | VDD!=VDDQ
MEMORY MUX TABLE:
SDR | DDR
CS0 | CS0
CS1 | CS1
CS2 | CS2
CS3 | CS3
CS4 | CS4
CS5 | CS5
CSB0 | DQS0
CSB1 | DQS1
CSB2 | DQS2
CSB3 | DQS3
CSB4 | DQS4
CSB5 | DQS5
CSB6 | DQS6
CSB7 | DQS7
Swap DATA for Layout
addr = 1010000b
addr = 1010001b
/RSRAS-
/RSCAS-
/RSWE-
CS-0
CS-1
CS-2
CS-3
CKE0
CKE1
CKE2
CKE3
DDRCLK0
DDRCLK3
DDRCLK2
DDRCLK-0
DDRCLK-3
DDRCLK-2
DDRCLK5
DDRCLK4
DDRCLK1
DDRCLK-5
DDRCLK-4
DDRCLK-1
DDRVREF
SMBCLK
SMBDAT
WP
R131 4.7K
R132 8.2K
14,17,18 SMBCLK
14,17,18 SMBDAT
22 DDRVREF
WP
VCC2.5_MEM
10,23 CS-[0..3]
10 CKE[0..3]
18 DDRCLK[0..5]
18 DDRCLK-[0..5]
DDR_DIMM
FOXCONN TECHNOLOGY COPR.
Title
DIMM1, 2
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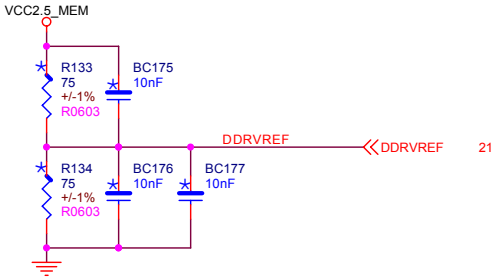
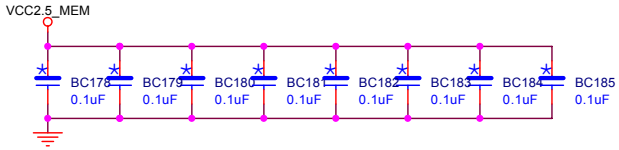
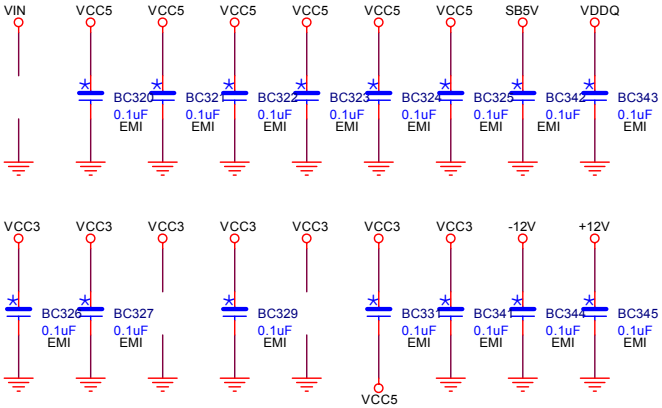
DDRVREF GEN. & DECOUPLING





EMI



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SSTL-2 Termination Resistors

MD[0..63] → MD[0..63] 10,21
DQM[0..7] → DQM[0..7] 10,21
DQS[0..7] → DQS[0..7] 10,21
MA[0..14] → MA[0..14] 10,21
CS-[0..3] → CS-[0..3] 10,21

	SDR	Rs	DDR	Rs	Rtt
MD/DQM(/DQS)	LV-CMOS	0/10/-	SSTL-2	10	33
MA/Control	LV-CMOS	10	SSTL-2	0	33
CS	LV-CMOS	0	SSTL-2	0	47
CKE	OD 3.3V		OD 2.5V		

Termination change 56ohm

DDR_VTT

RN13: MD2, MD1, MD0, MD4 — 47
RN14: MD34, DQS4, MD33, MD37 — 47
RN15: MD7, MD3, DQS0, DQM0 — 47
RN16: MD39, MA11, MD38, DQM4 — 47
RN17: MD9, MD8, MD5, MD6 — 47
RN18: MD40, MD44, MD35, MD49 — 47
RN19: DQM1, MD13, DQS1, MD12 — 47
RN20: MD48, MD47, MD43 — 47
RN21: MD11, MD10, MD15, MD14 — 47
RN22: MA7, MD22, MD18, MA9 — 47
RN23: DQM6, MD53, MD52 — 47
RN24: MD17, MD16, MA14, MD20 — 47
RN25: MD55, MD50, MD54, DQS6 — 47
RN26: MA4, DQM3, DQS3, MD25 — 47
RN27: MD62, DQS7, DQM7, MD57 — 47
RN28: MA0, MA1, MA2, MD31 — 47
RN29: MD61, MD56, MD60, MD51 — 47
RN30: MD27, MD30, MD26, MA3 — 47
RN31: MD63, MD59, MD58 — 47

DDR_VTT

RN32: MD36, MD32, MA12, MA10 — 47
RN33: MD46, MD42, DQS5, DQM5 — 47
RN34: MD29, MD28, MA6, MD24 — 47
RN35: /RSCAS-, CS-0, MD41, MD45 — 47
10,21 /RSCAS-
RN36: MA5, MD23, MD19, MA8 — 47
RN37: CS-3, CS-2, CS-1 — 56
RN38: DQM2, MA13, DQS2, MD21 — 47

10,21 /RSRAS- → 47R135
10,21 /RSWE- → 47R137

DECOUPLING CAPACITOR FOR SSTL-2 END TERMIANTION VTT ISLAND
0603 Package placed within 200mils of VTT Termination R-packs

DDR_VTT
BC186 0.1uF, BC187 0.1uF, BC188 0.1uF, BC189 0.1uF, BC190 0.1uF, BC191 0.1uF, BC192 0.1uF, BC193 0.1uF, BC194 0.1uF

DDR_VTT
BC195 0.1uF, BC196 0.1uF, BC197 0.1uF, BC198 0.1uF, BC199 0.1uF, BC200 0.1uF, BC201 0.1uF, BC202 0.1uF, BC203 0.1uF

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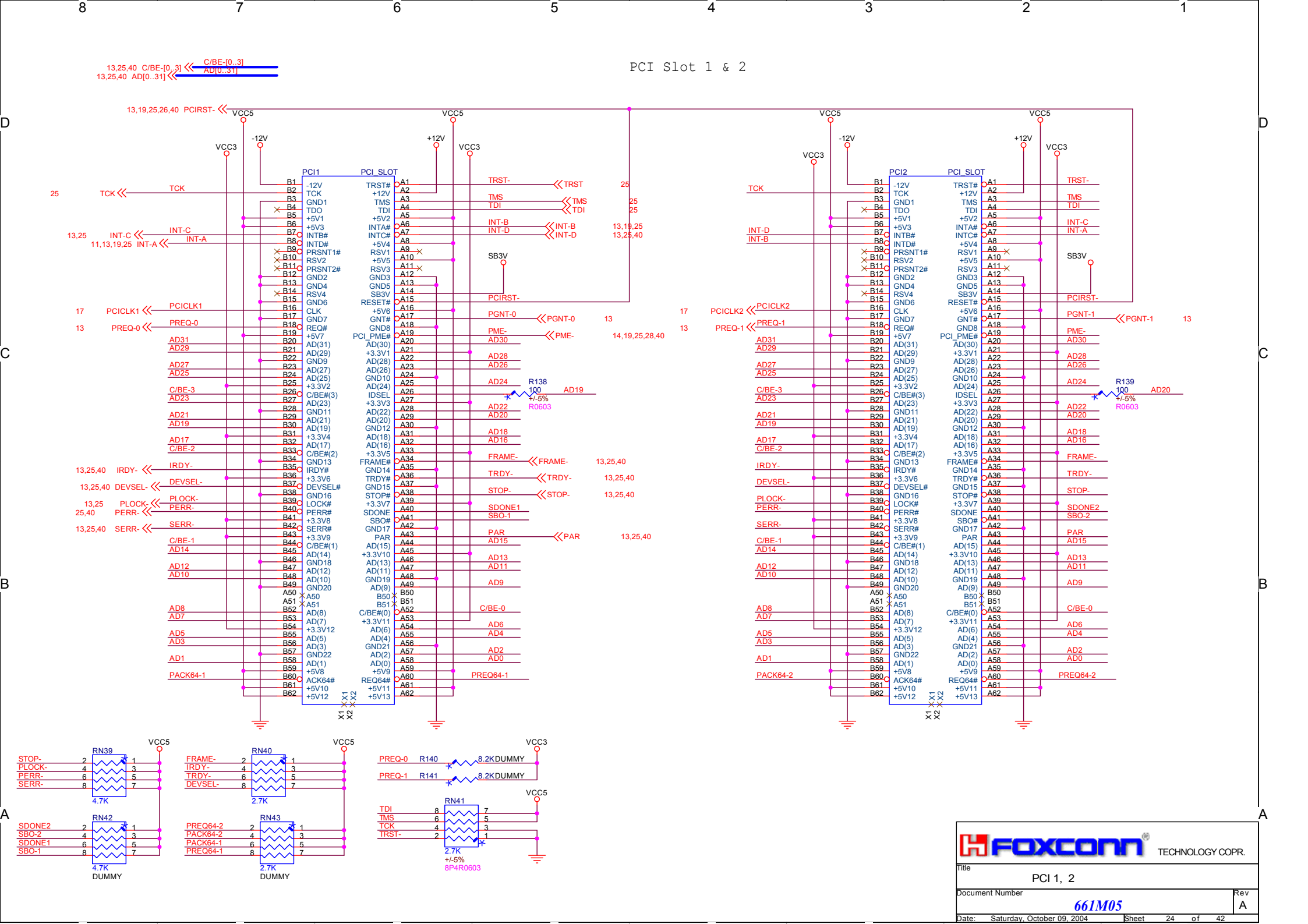
PCI Slot 1 & 2



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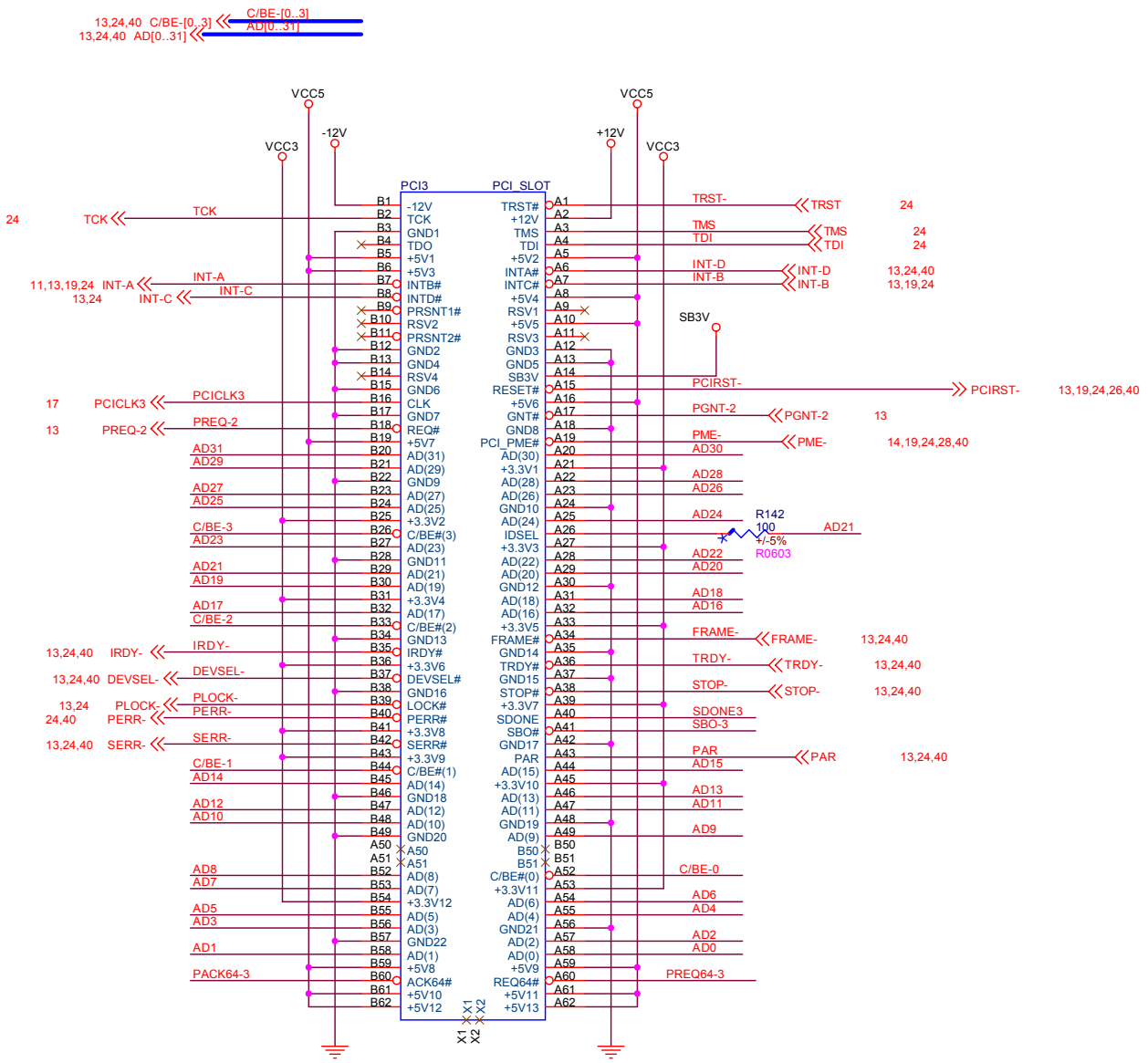
PCI Slot 3



FOXCONN TECHNOLOGY COPR.

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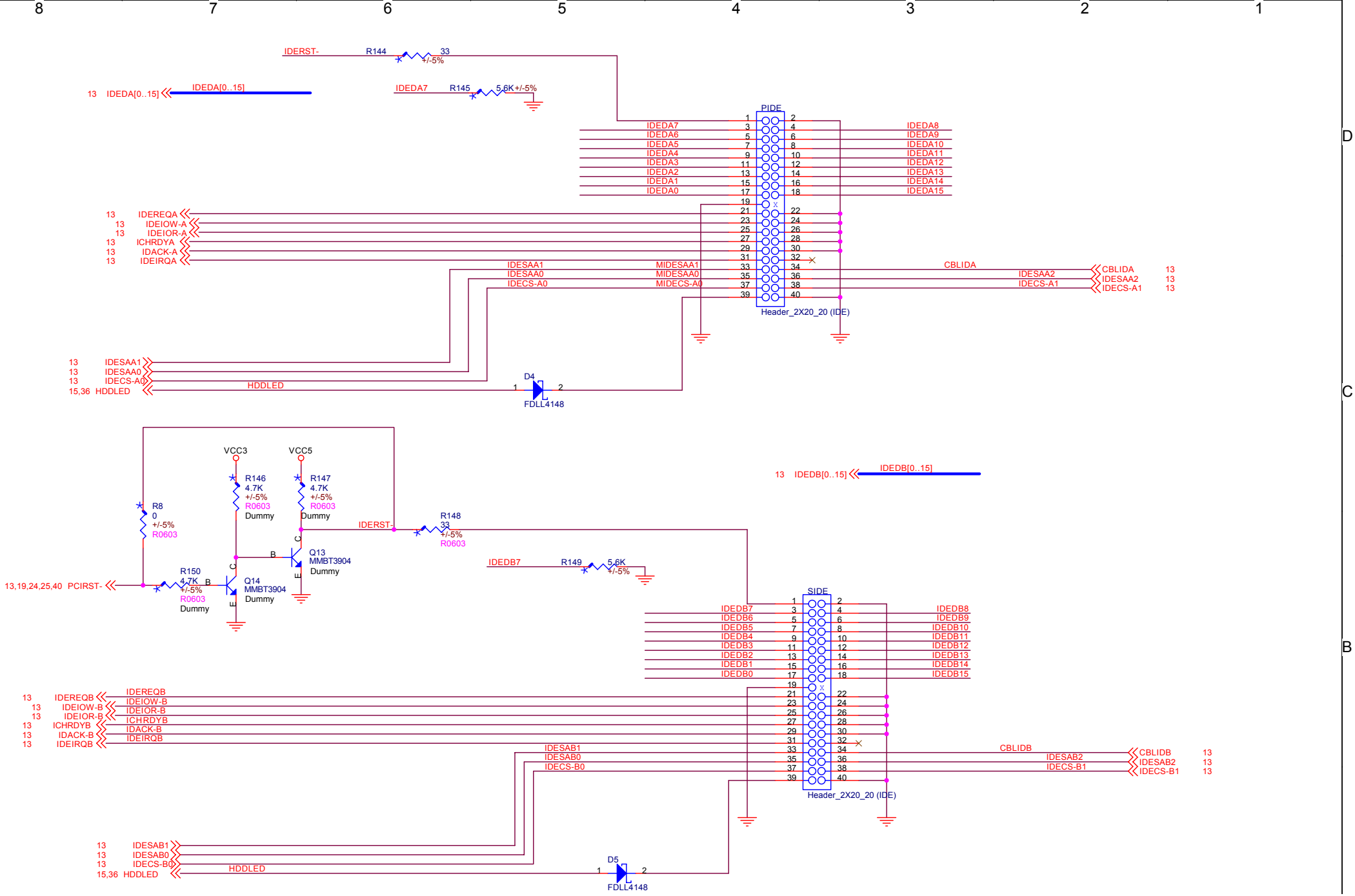

FOXCONN TECHNOLOGY COPR.

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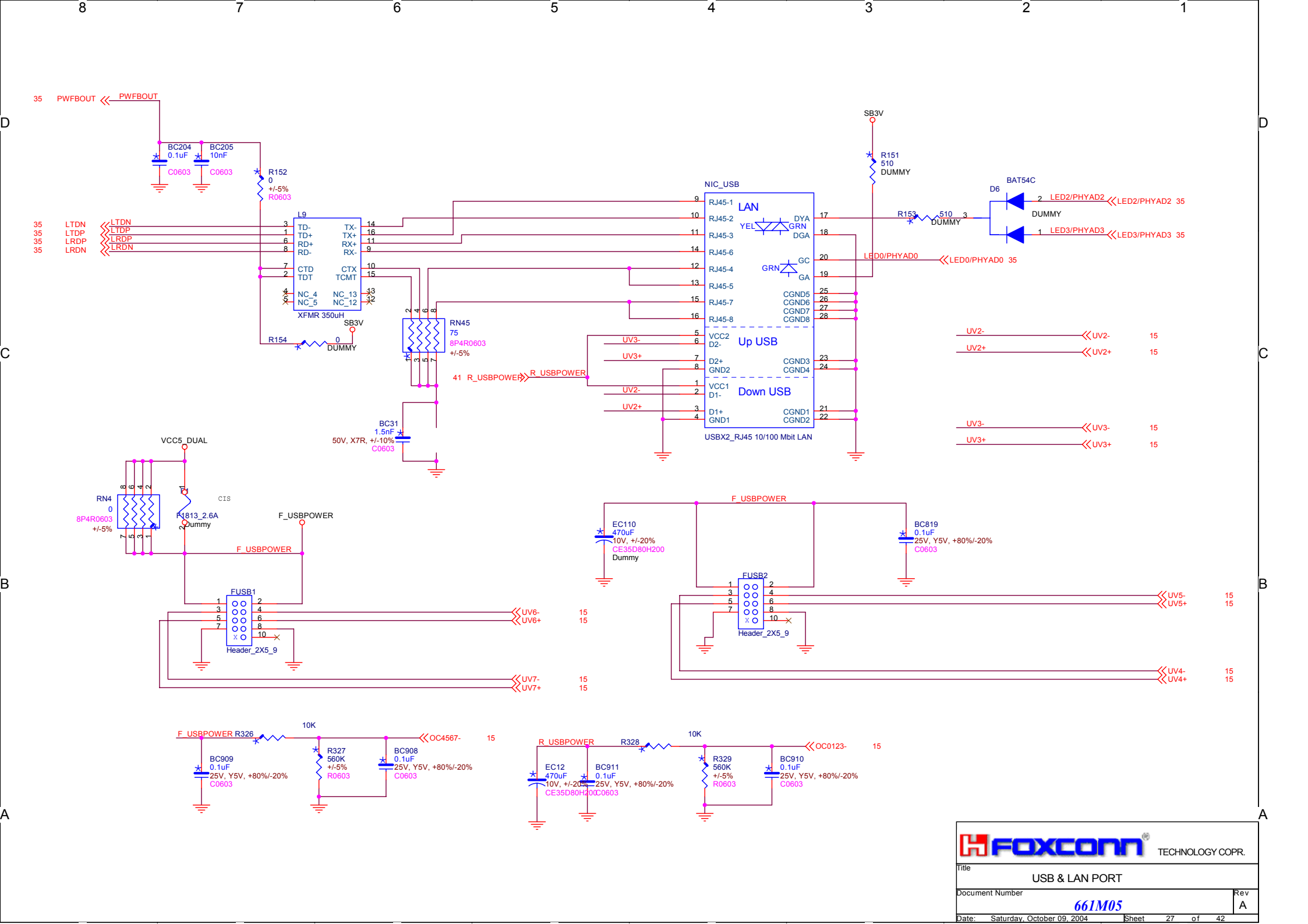

FOXCONN TECHNOLOGY COPR.

Title: USB & LAN PORT

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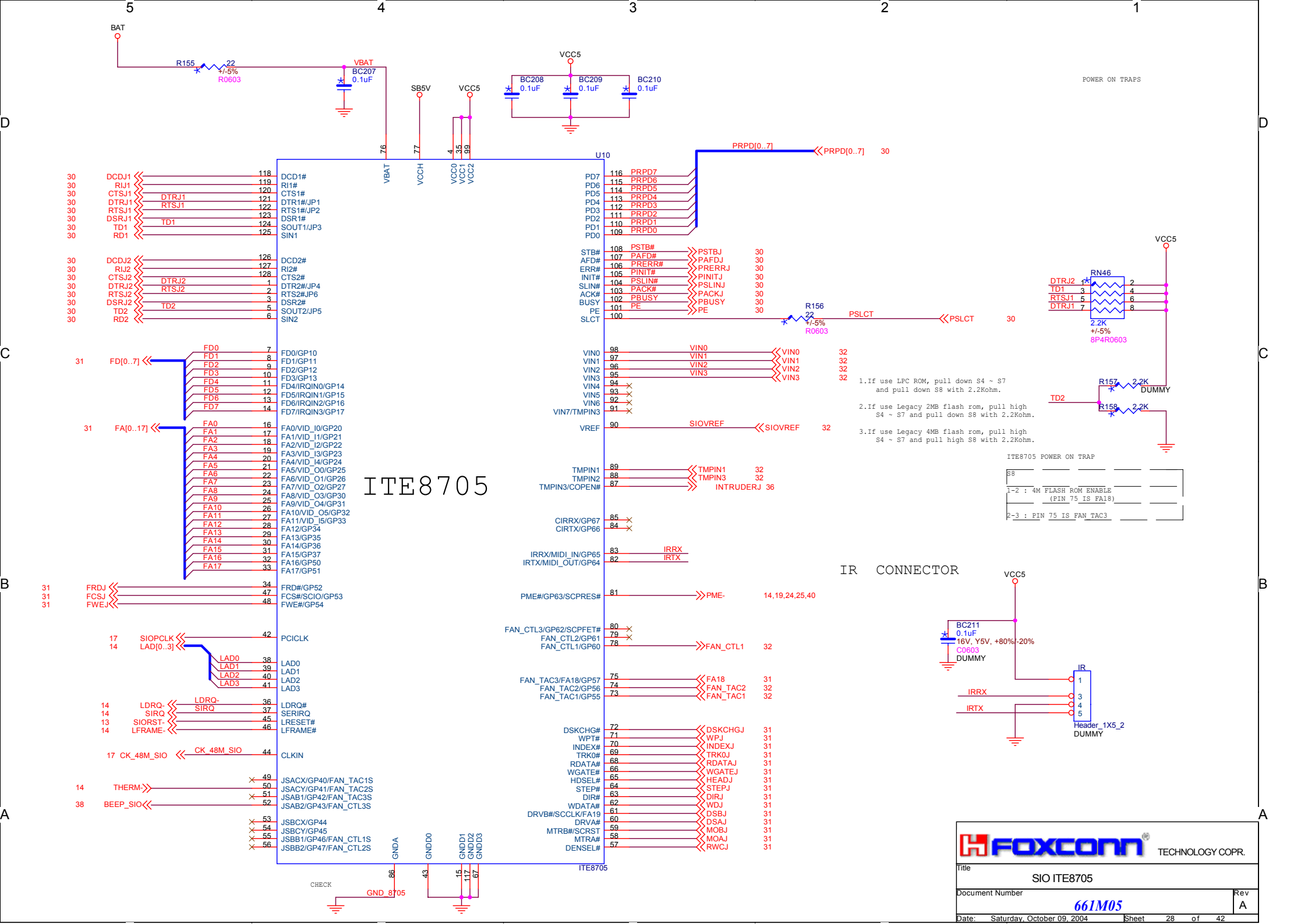
ITE8705
U10
BAT
R155 22 +/-5% R0603
VBAT
BC207 0.1uF
SB5V
VCC5
BC208 0.1uF
BC209 0.1uF
BC210 0.1uF
POWER ON TRAPS
DCDJ1
RIJ1
CTSJ1
DTRJ1
RTSJ1
DSRJ1
TD1
RD1
DCD1#
RI1#
CTS1#
DTR1#/JP1
RTS1#/JP2
DSR1#
SOUT1/JP3
SIN1
DCDJ2
RIJ2
CTSJ2
DTRJ2
RTSJ2
DSRJ2
TD2
RD2
DCD2#
RI2#
CTS2#
DTR2#/JP4
RTS2#JP6
DSR2#
SOUT2/JP5
SIN2
FD[0..7]
FD0/GP10
FD1/GP11
FD2/GP12
FD3/GP13
FD4/IRQIN0/GP14
FD5/IRQIN1/GP15
FD6/IRQIN2/GP16
FD7/IRQIN3/GP17
FA[0..17]
FA0/VID_I0/GP20
FA1/VID_I1/GP21
FA2/VID_I2/GP22
FA3/VID_I3/GP23
FA4/VID_I4/GP24
FA5/VID_O0/GP25
FA6/VID_O1/GP26
FA7/VID_O2/GP27
FA8/VID_O3/GP30
FA9/VID_O4/GP31
FA10/VID_O5/GP32
FA11/VID_I5/GP33
FA12/GP34
FA13/GP35
FA14/GP36
FA15/GP37
FA16/GP50
FA17/GP51
FRDJ
FCSJ
FWEJ
FRD#/GP52
FCS#/SCIO/GP53
FWE#/GP54
SIOPCLK
LAD[0..3]
PCICLK
LAD0
LAD1
LAD2
LAD3
LDRQ-
SIRQ
SIORST-
LFRAME-
LDRQ#
SERIRQ
LRESET#
LFRAME#
CK_48M_SIO
CLKIN
THERM-
BEEP_SIO
JSACX/GP40/FAN_TAC1S
JSACY/GP41/FAN_TAC2S
JSAB1/GP42/FAN_TAC3S
JSAB2/GP43/FAN_CTL3S
JSBCX/GP44
JSBCY/GP45
JSBB1/GP46/FAN_CTL1S
JSBB2/GP47/FAN_CTL2S
GNDA
GNDD0
GNDD1
GNDD2
GNDD3
GND_8705
CHECK
PRPD[0..7]
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
STB#
AFD#
ERR#
INIT#
SLIN#
ACK#
BUSY
PE
SLCT
PSTB#
PAFD#
PRERR#
PINIT#
PSLIN#
PACK#
PBUSY
PE
PSTBJ
PAFDJ
PRERRJ
PINITJ
PSLINJ
PACKJ
PBUSY
PE
R156 22 +/-5% R0603
PSLCT
VIN0
VIN1
VIN2
VIN3
VIN4
VIN5
VIN6
VIN7/TMPIN3
VREF
SIOVREF
TMPIN1
TMPIN2
TMPIN3/COPEN#
INTRUDERJ
CIRRX/GP67
CIRTX/GP66
IRRX/MIDI_IN/GP65
IRTX/MIDI_OUT/GP64
IRRX
IRTX
PME#/GP63/SCPRES#
PME-
14,19,24,25,40
FAN_CTL3/GP62/SCPFET#
FAN_CTL2/GP61
FAN_CTL1/GP60
FAN_CTL1
FAN_TAC3/FA18/GP57
FAN_TAC2/GP56
FAN_TAC1/GP55
FA18
FAN_TAC2
FAN_TAC1
DSKCHG#
WPT#
INDEX#
TRK0#
RDATA#
WGATE#
HDSEL#
STEP#
DIR#
WDATA#
DRVB#/SCCLK/FA19
DRVA#
MTRB#/SCRST
MTRA#
DENSEL#
DSKCHGJ
WPJ
INDEXJ
TRK0J
RDATAJ
WGATEJ
HEADJ
STEPJ
DIRJ
WDJ
DSBJ
DSAJ
MOBJ
MOAJ
RWCJ
ITE8705
1.If use LPC ROM, pull down S4 ~ S7 and pull down S8 with 2.2Kohm.
2.If use Legacy 2MB flash rom, pull high S4 ~ S7 and pull down S8 with 2.2Kohm.
3.If use Legacy 4MB flash rom, pull high S4 ~ S7 and pull high S8 with 2.2Kohm.
RN46
2.2K +/-5% 8P4R0603
R157 2.2K DUMMY
R158 2.2K
ITE8705 POWER ON TRAP
S8
1-2 : 4M FLASH ROM ENABLE (PIN 75 IS FA18)
2-3 : PIN 75 IS FAN_TAC3
IR CONNECTOR
BC211 0.1uF 16V, Y5V, +80%-20% C0603 DUMMY
IR
Header_1X5_2 DUMMY
FOXCONN TECHNOLOGY COPR.
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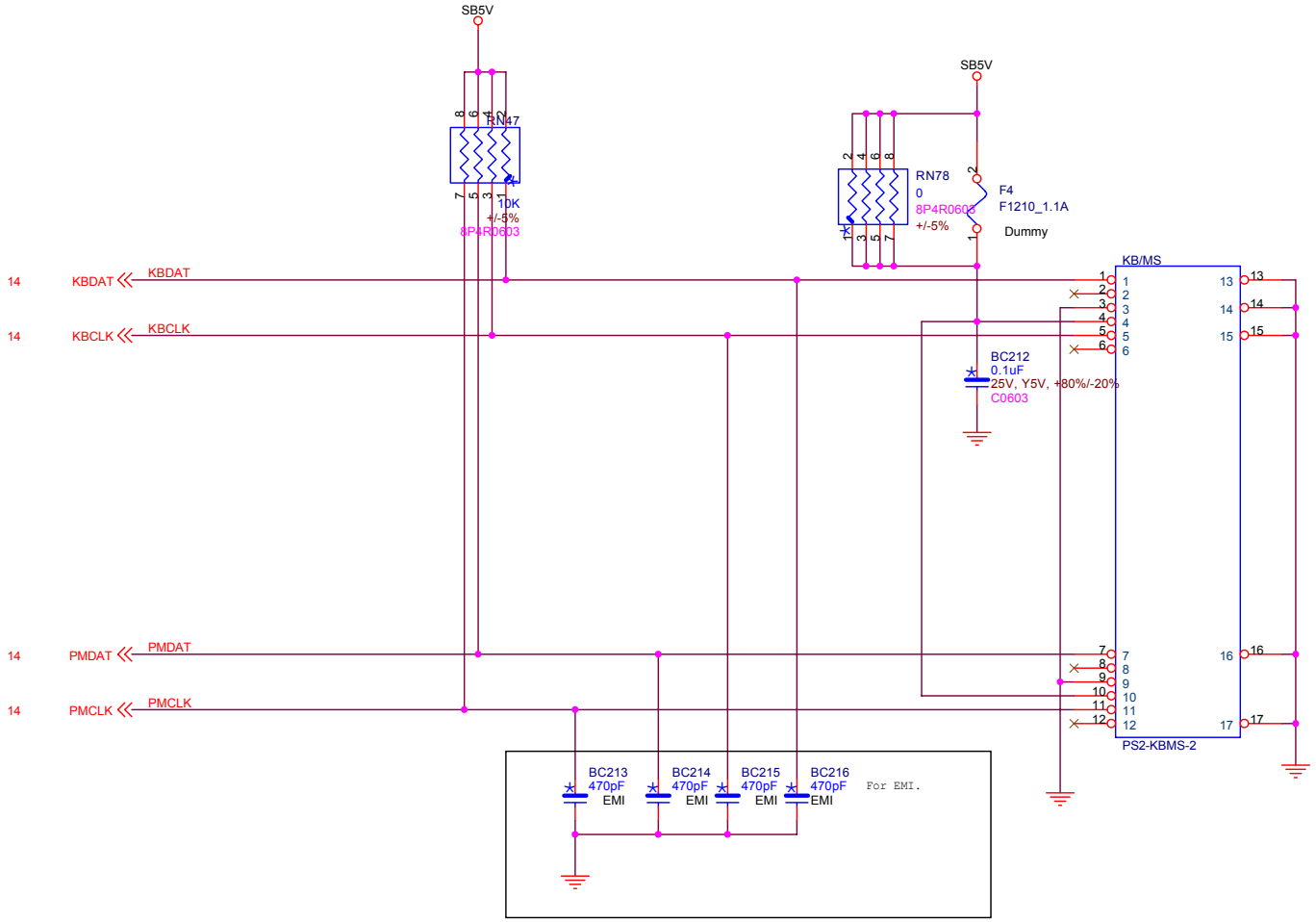

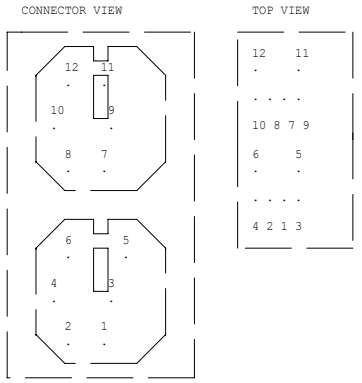

NOTE:
SIS IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE SCHEMATICS. THIS IS AN EXAMPLE ONLY.

FOXCONN TECHNOLOGY COPR.

Title: Keyboard Mouse

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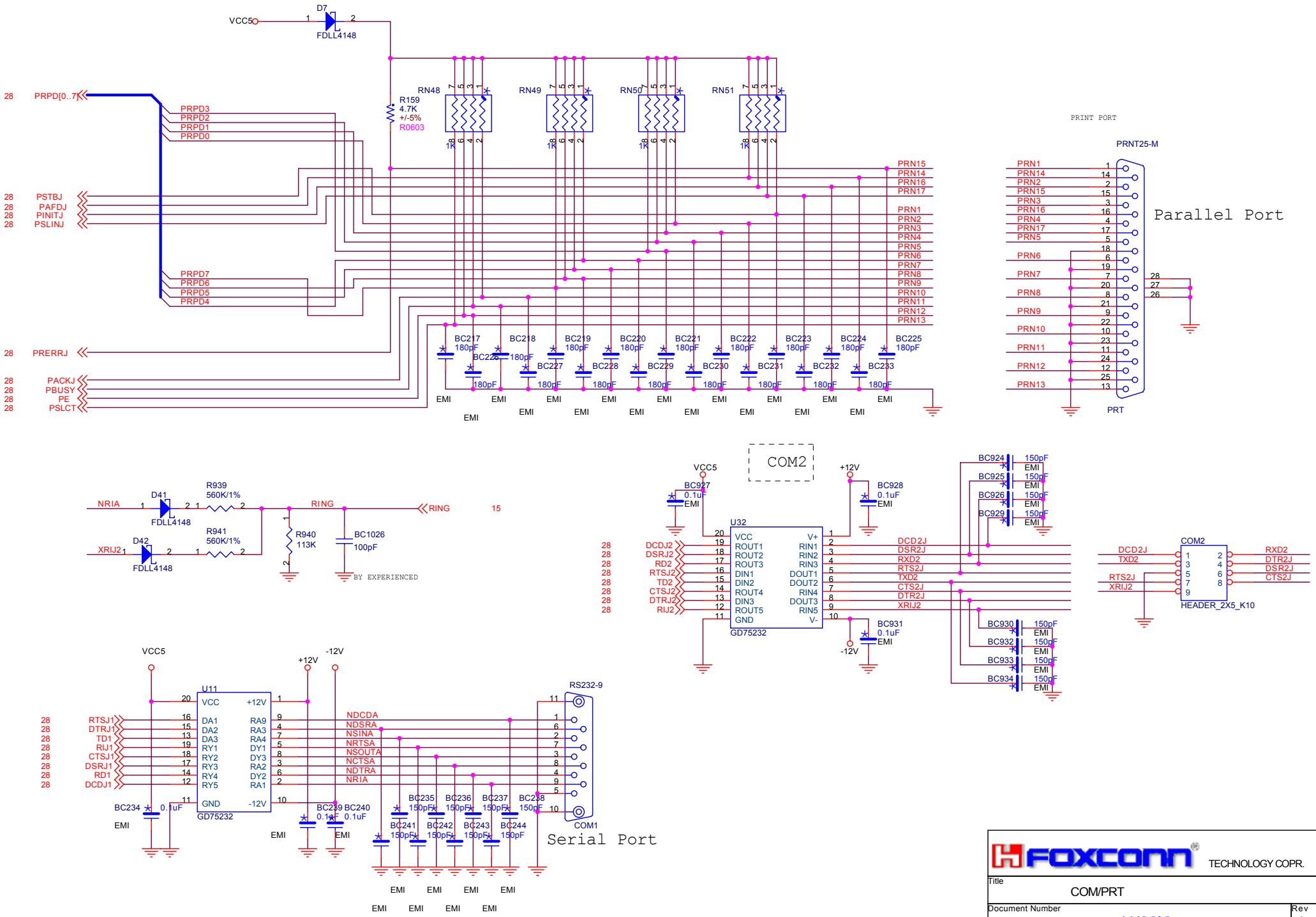
PRINT PORT
PRNT25-M
Parallel Port
PRT
COM2
HEADER_2X5_K10
Serial Port
COM1
RS232-9
GD75232
U11
U32
BY EXPERIENCED
TECHNOLOGY COPR.
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COM/PRT
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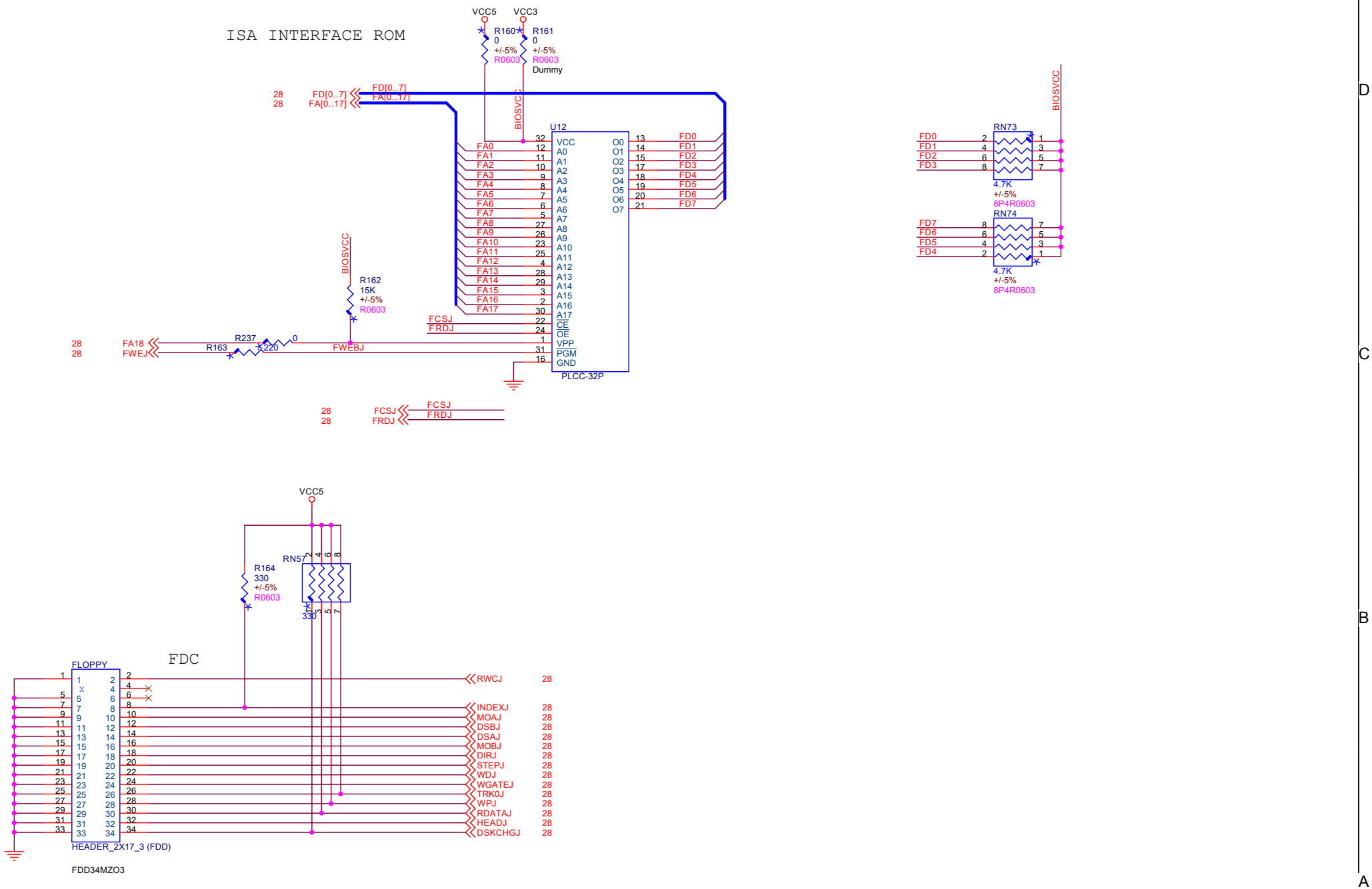

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Title: BIOS/FLOPPY

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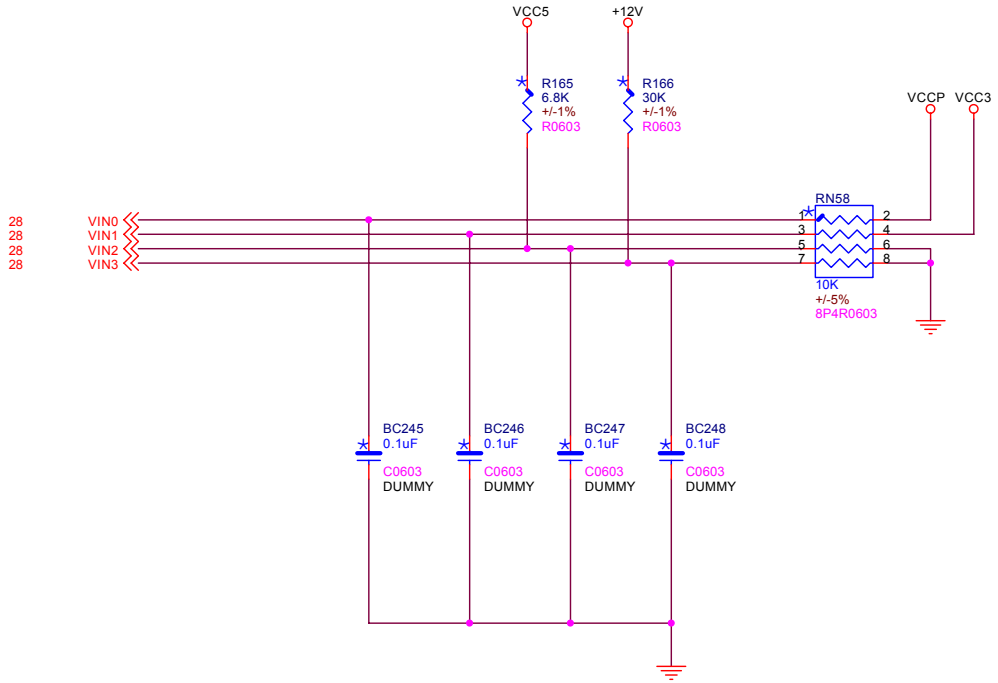
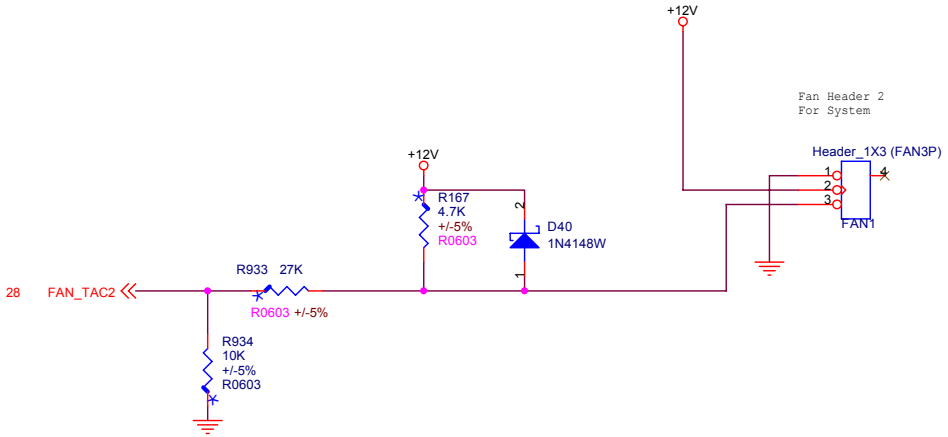
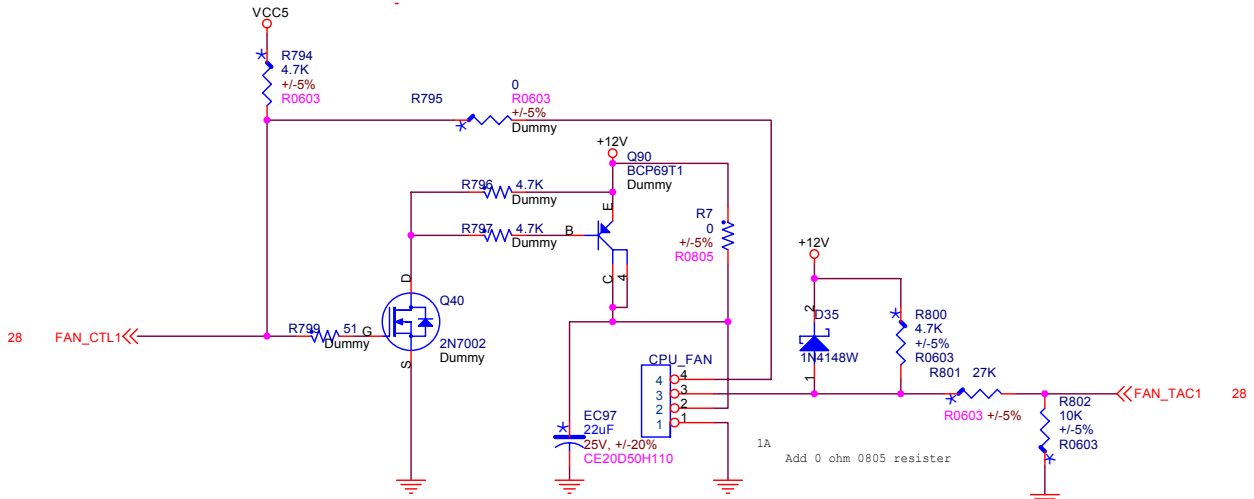
Voltage Monitor



FAN Input and Output

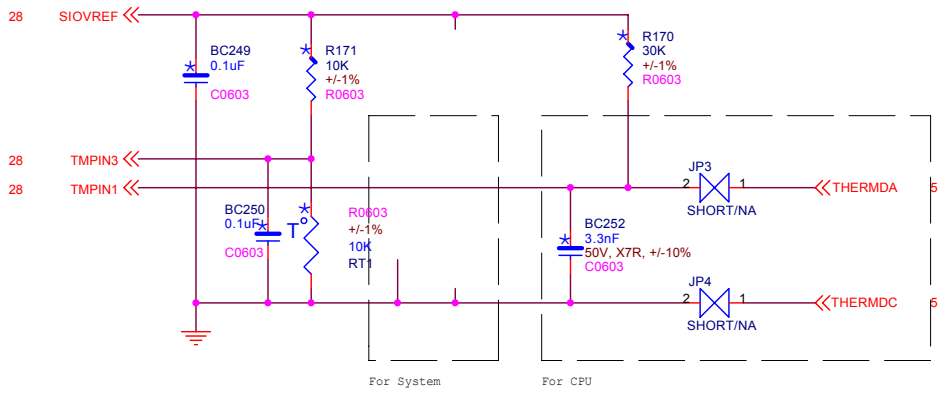




check **CPU FAN**

Temperature Monitor

Choosing method of measuring temperature by either thermistor or diode



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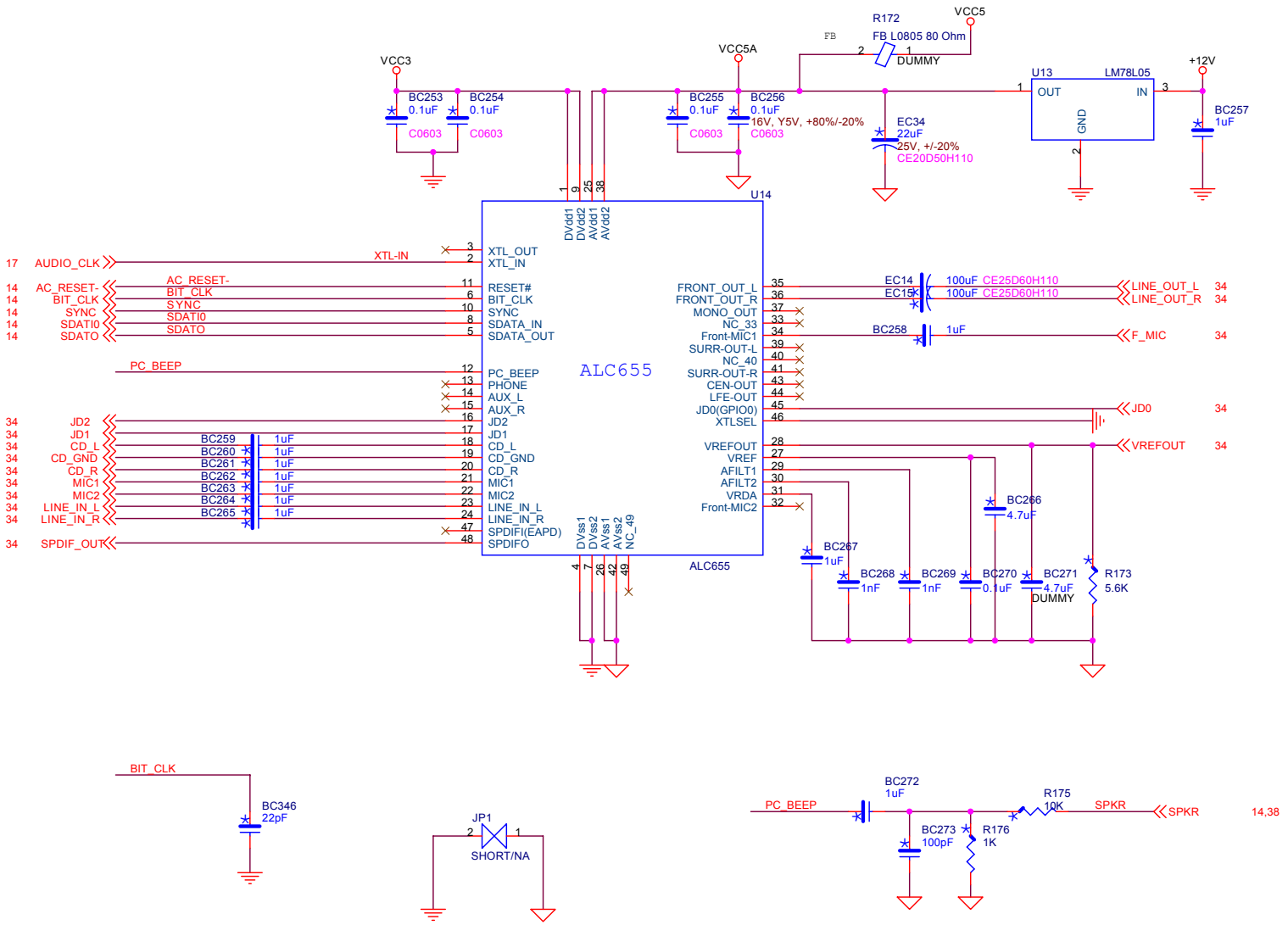

FOXCONN TECHNOLOGY COPR.

Title: AC97 CODEC

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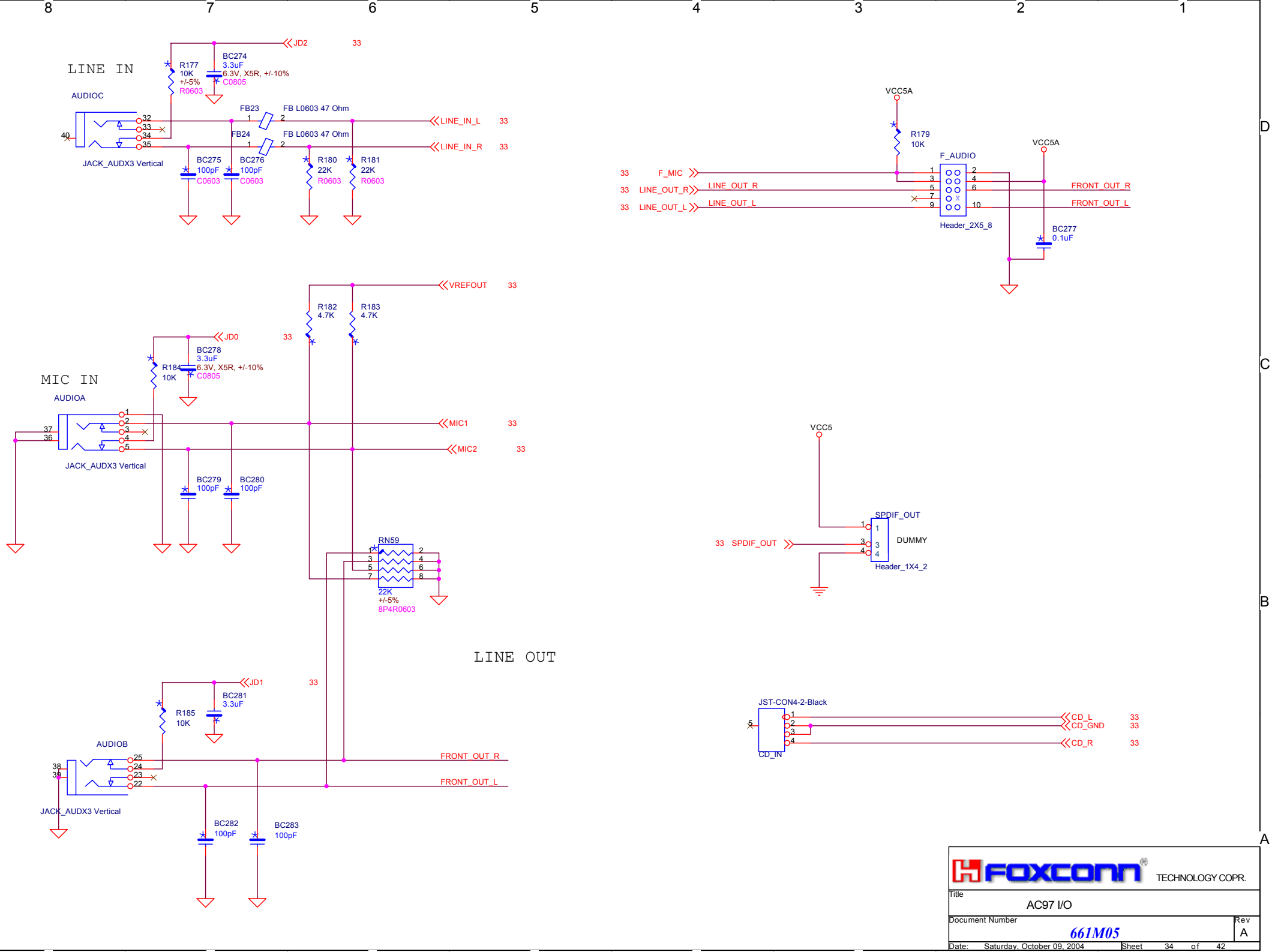

FOXCONN TECHNOLOGY COPR.	
Title	AC97 I/O
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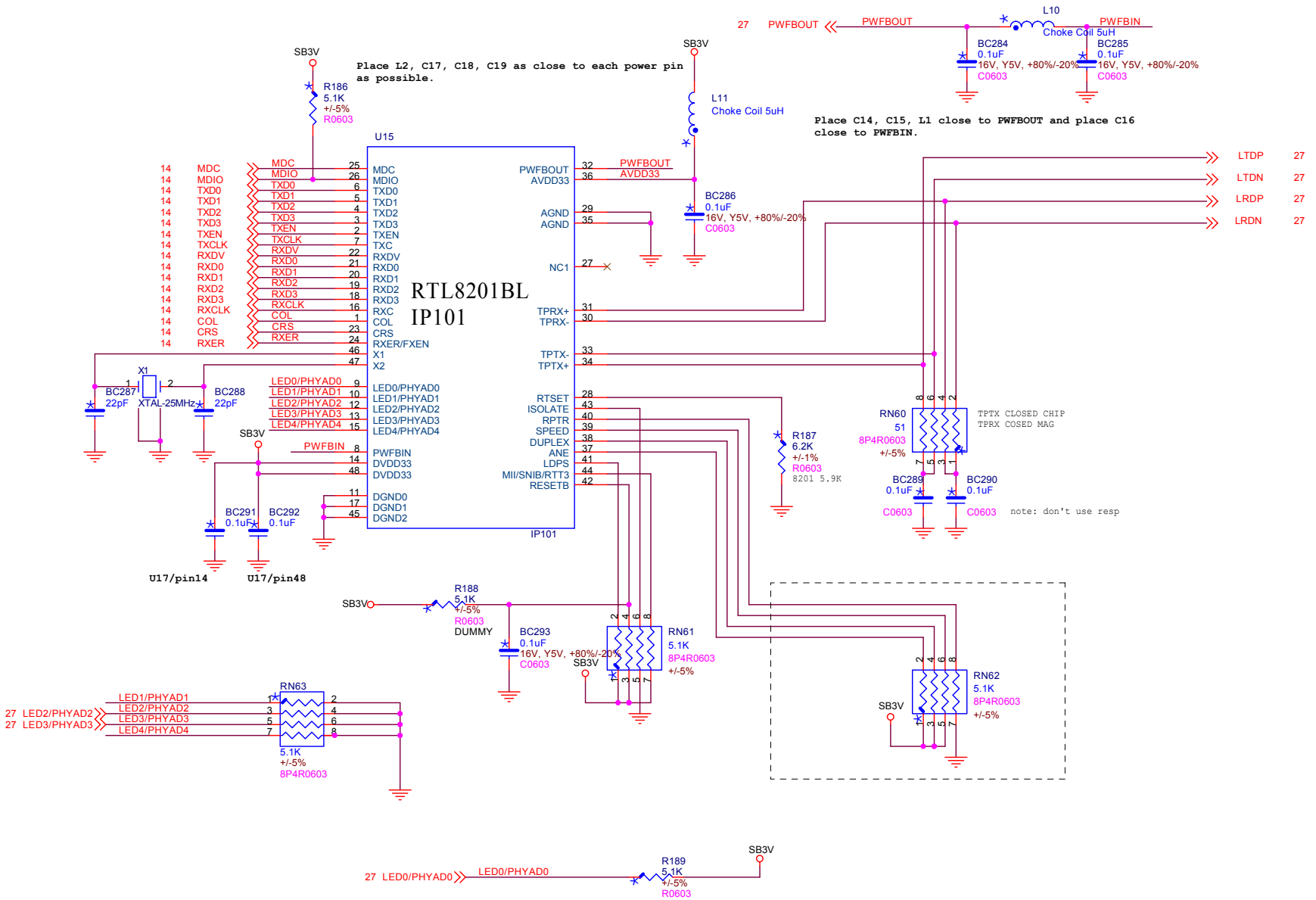

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Title	LAN PHY
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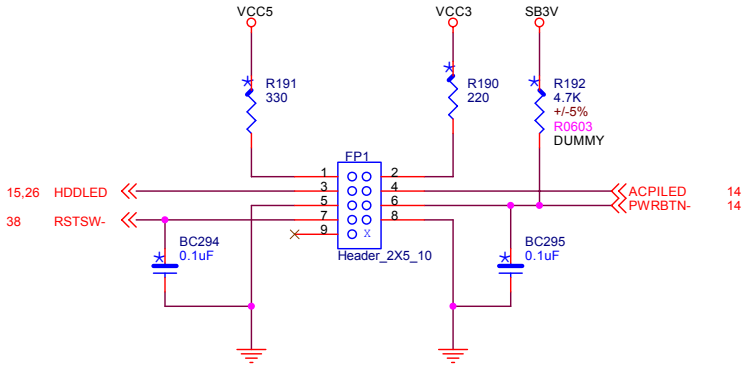
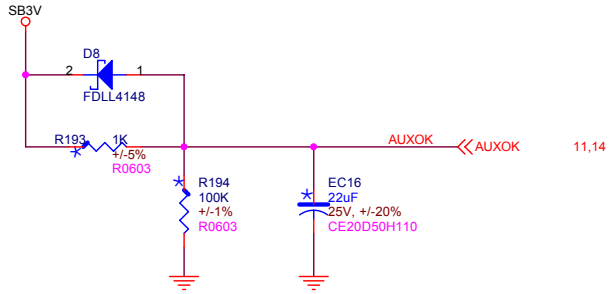
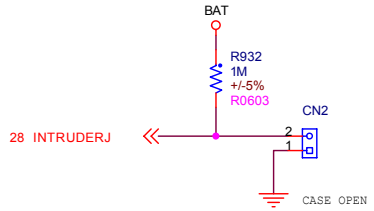






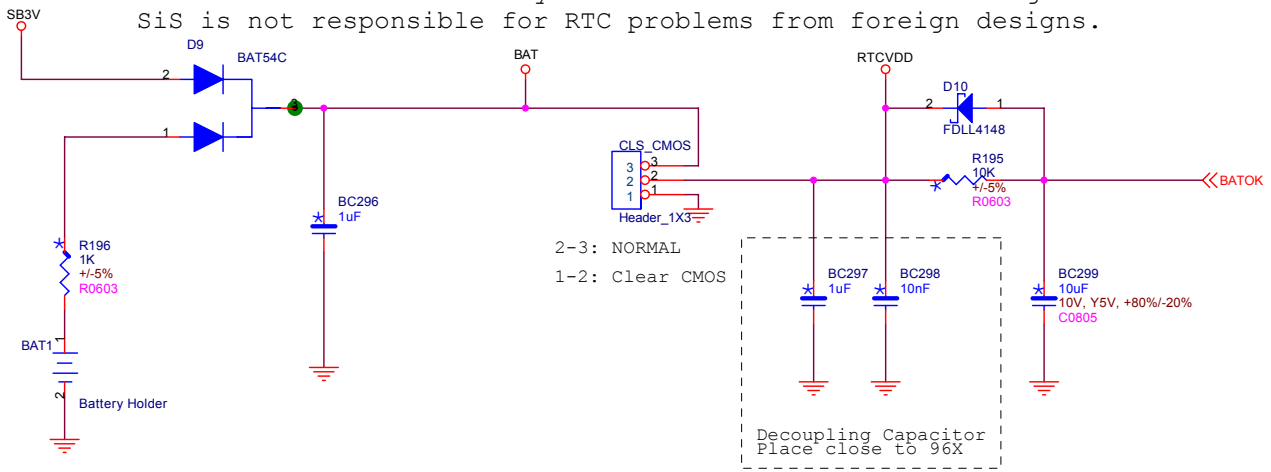
RTC

NOTE!

1.The RTCVDD is 3V

2.Decoupling capacitor must be close to 96X RTCVDD pin.

3.RTC circuit must strictly follow SiS's recommended design
SiS is not responsible for RTC problems from foreign designs.



FOXCONN TECHNOLOGY COPR.

Title: BTN/RTC Batt

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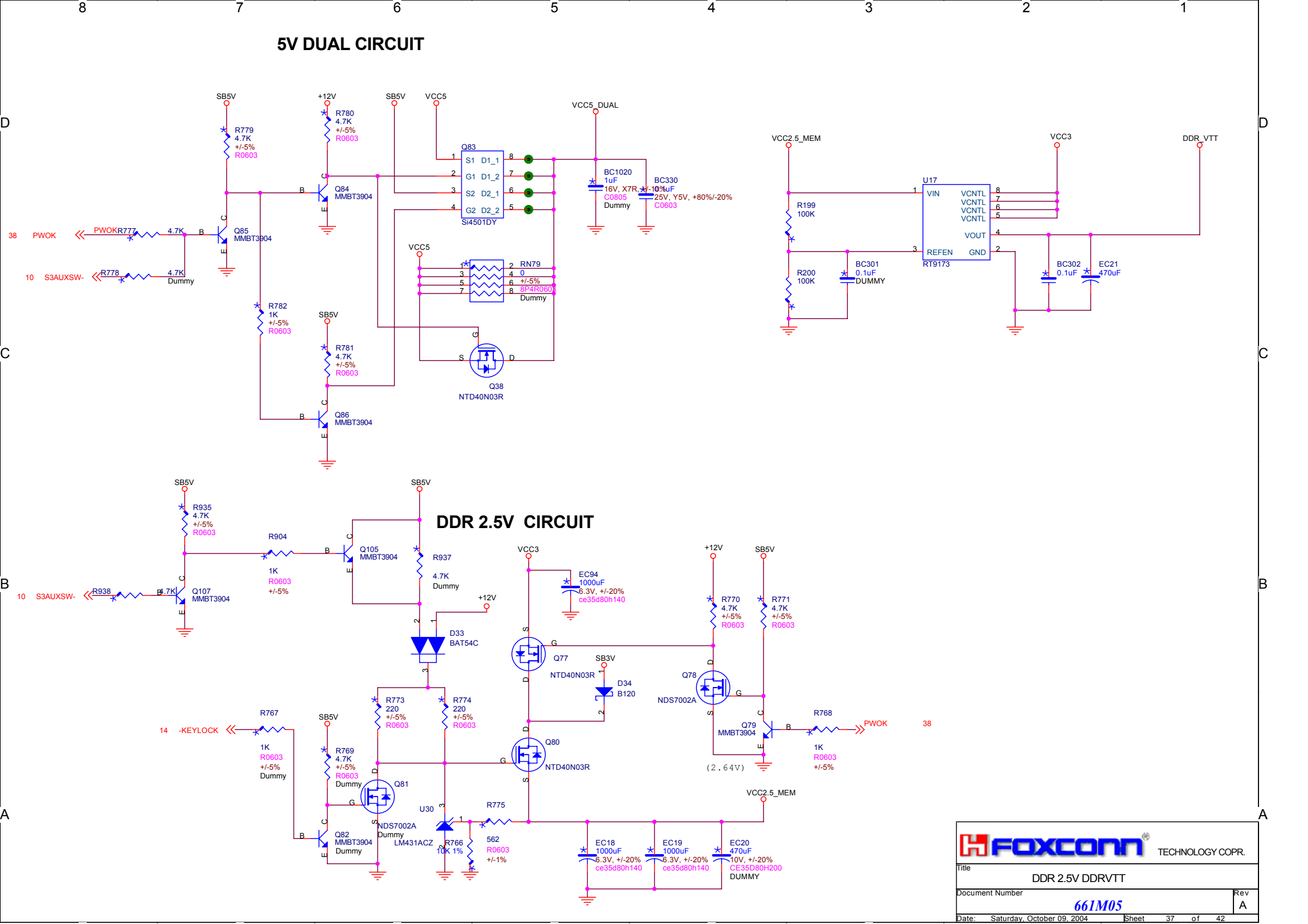
5V DUAL CIRCUIT
SB5V
+12V
VCC5
VCC5_DUAL
R779 4.7K +/-5% R0603
R780 4.7K +/-5% R0603
Q83
Si4501DY
Q84 MMBT3904
Q85 MMBT3904
38 PWOK
PWOK
R777 4.7K
10 S3AUXSW-
R778 4.7K Dummy
BC1020 1uF 16V, X7R, +/-10% C0805 Dummy
BC330 1uF 25V, Y5V, +80%/-20% C0603
RN79 0 +/-5% 8P4R0603 Dummy
R782 1K +/-5% R0603
R781 4.7K +/-5% R0603
Q38 NTD40N03R
Q86 MMBT3904
VCC2.5_MEM
VCC3
DDR_VTT
U17
RT9173
VIN
VCNTL
VOUT
REFEN
GND
R199 100K
R200 100K
BC301 0.1uF DUMMY
BC302 0.1uF
EC21 470uF
DDR 2.5V CIRCUIT
R935 4.7K +/-5% R0603
R904 1K R0603 +/-5%
Q105 MMBT3904
R937 4.7K Dummy
Q107 MMBT3904
R938 4.7K
10 S3AUXSW-
D33 BAT54C
EC94 1000uF 6.3V, +/-20% ce35d80h140
Q77 NTD40N03R
SB3V
D34 B120
Q78 NDS7002A
R770 4.7K +/-5% R0603
R771 4.7K +/-5% R0603
Q79 MMBT3904
R768 1K R0603 +/-5%
PWOK
38
(2.64V)
R767 1K R0603 +/-5% Dummy
14 -KEYLOCK
R773 220 +/-5% R0603
R774 220 +/-5% R0603
R769 4.7K +/-5% R0603 Dummy
Q80 NTD40N03R
Q81 NDS7002A Dummy
Q82 MMBT3904 Dummy
U30 LM431ACZ
R766 10K 1%
R775 562 R0603 +/-1%
EC18 1000uF 6.3V, +/-20% ce35d80h140
EC19 1000uF 6.3V, +/-20% ce35d80h140
EC20 470uF 10V, +/-20% CE35D80H200 DUMMY
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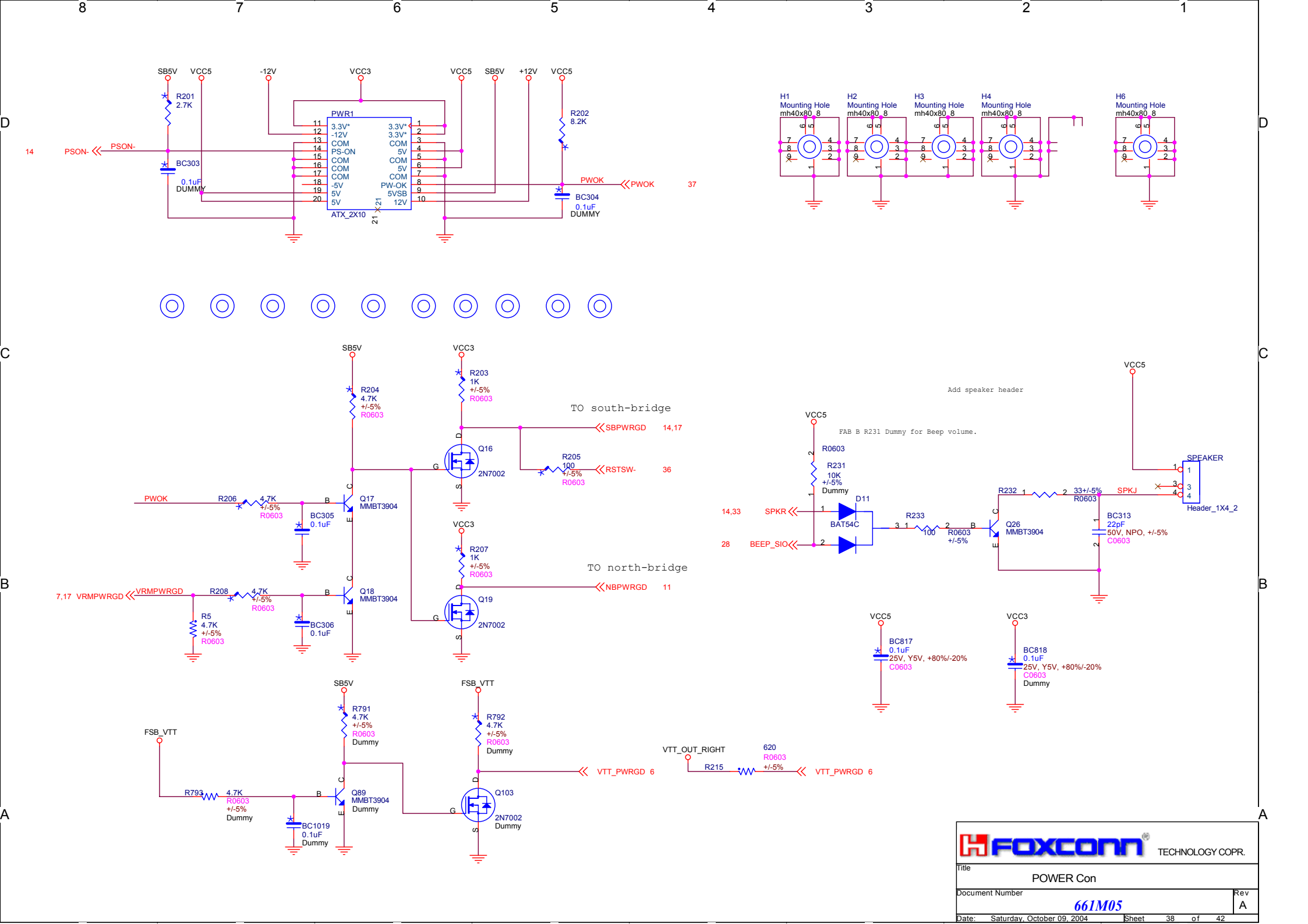
8 7 6 5 4 3 2 1
D C B A
SB5V VCC5 -12V VCC3 VCC5 SB5V +12V VCC5
R201 2.7K
PSON-
BC303 0.1uF DUMMY
PWR1
3.3V* 3.3V* -12V COM PS-ON COM COM COM -5V 5V 5V
3.3V* 3.3V* COM 5V COM 5V COM PW-OK 5VSB 12V
ATX_2X10
R202 8.2K
PWOK
BC304 0.1uF DUMMY
14
37
H1 Mounting Hole mh40x80_8
H2 Mounting Hole mh40x80_8
H3 Mounting Hole mh40x80_8
H4 Mounting Hole mh40x80_8
H6 Mounting Hole mh40x80_8
SB5V VCC3
R204 4.7K +/-5% R0603
R203 1K +/-5% R0603
TO south-bridge
SBPWRGD 14,17
Q16 2N7002
R205 100 +/-5% R0603
RSTSW- 36
PWOK R206 4.7K +/-5% R0603
Q17 MMBT3904
BC305 0.1uF
VCC3
R207 1K +/-5% R0603
TO north-bridge
NBPWRGD 11
Q19 2N7002
7,17 VRMPWRGD R208 4.7K +/-5% R0603
Q18 MMBT3904
R5 4.7K +/-5% R0603
BC306 0.1uF
SB5V FSB_VTT
R791 4.7K +/-5% R0603 Dummy
R792 4.7K +/-5% R0603 Dummy
FSB_VTT
R793 4.7K R0603 +/-5% Dummy
Q89 MMBT3904 Dummy
BC1019 0.1uF Dummy
VTT_PWRGD 6
Q103 2N7002 Dummy
VTT_OUT_RIGHT
R215 620 R0603 +/-5%
VTT_PWRGD 6
Add speaker header
VCC5
FAB B R231 Dummy for Beep volume.
R0603
R231 10K +/-5% Dummy
D11 BAT54C
14,33 SPKR
28 BEEP_SIO
R233 100 R0603 +/-5%
Q26 MMBT3904
R232 33+/-5% R0603
SPKJ
SPEAKER
Header_1X4_2
BC313 22pF 50V, NPO, +/-5% C0603
VCC5
BC817 0.1uF 25V, Y5V, +80%/-20% C0603
VCC3
BC818 0.1uF 25V, Y5V, +80%/-20% C0603 Dummy
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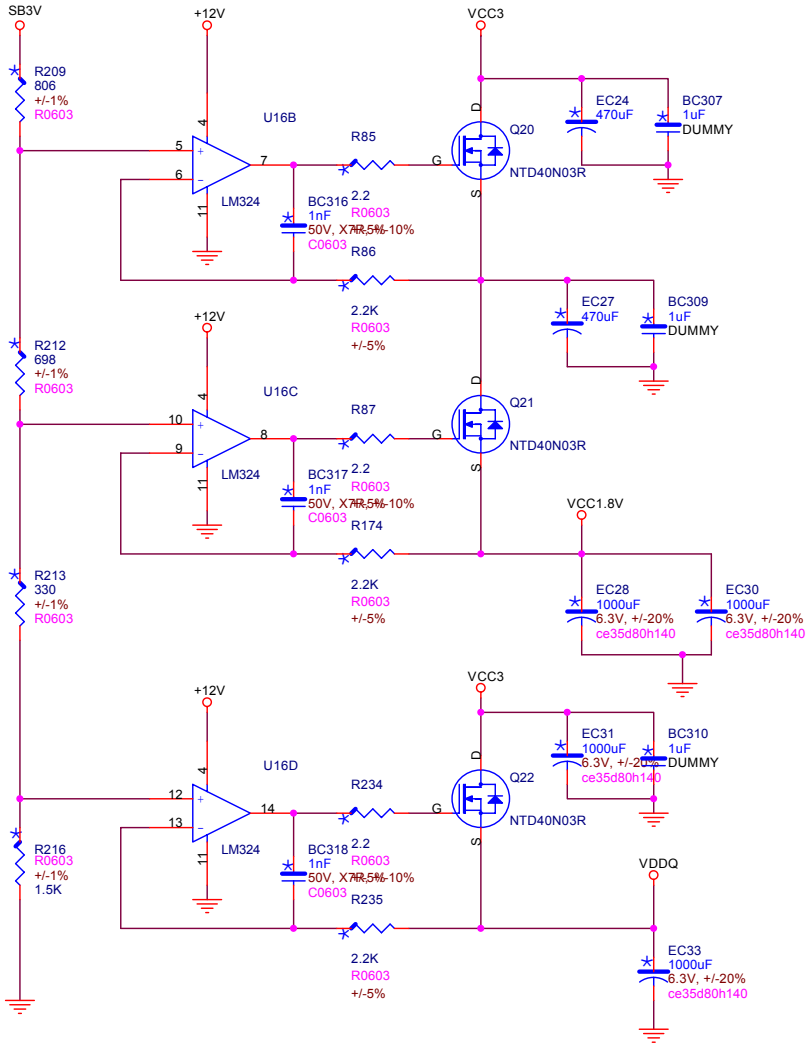
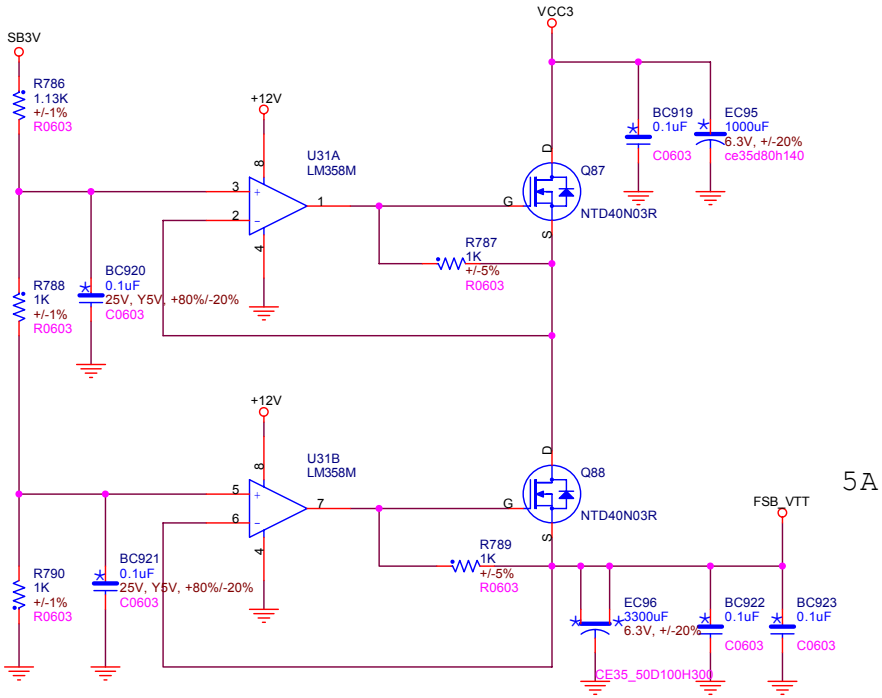
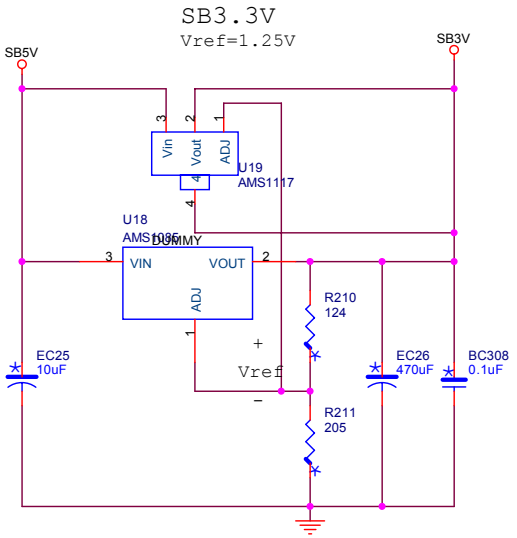
VCC1.8V and VDDQ



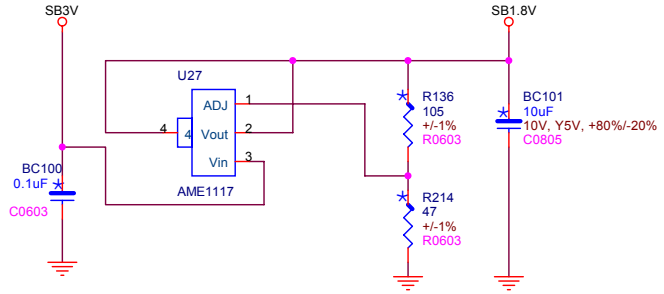
FSB_VTT



SB3.3V



SB1.8V for 964



FOXCONN TECHNOLOGY COPR.

Title: SB3V, SB1.8V, VCC1.8V, VDDQ

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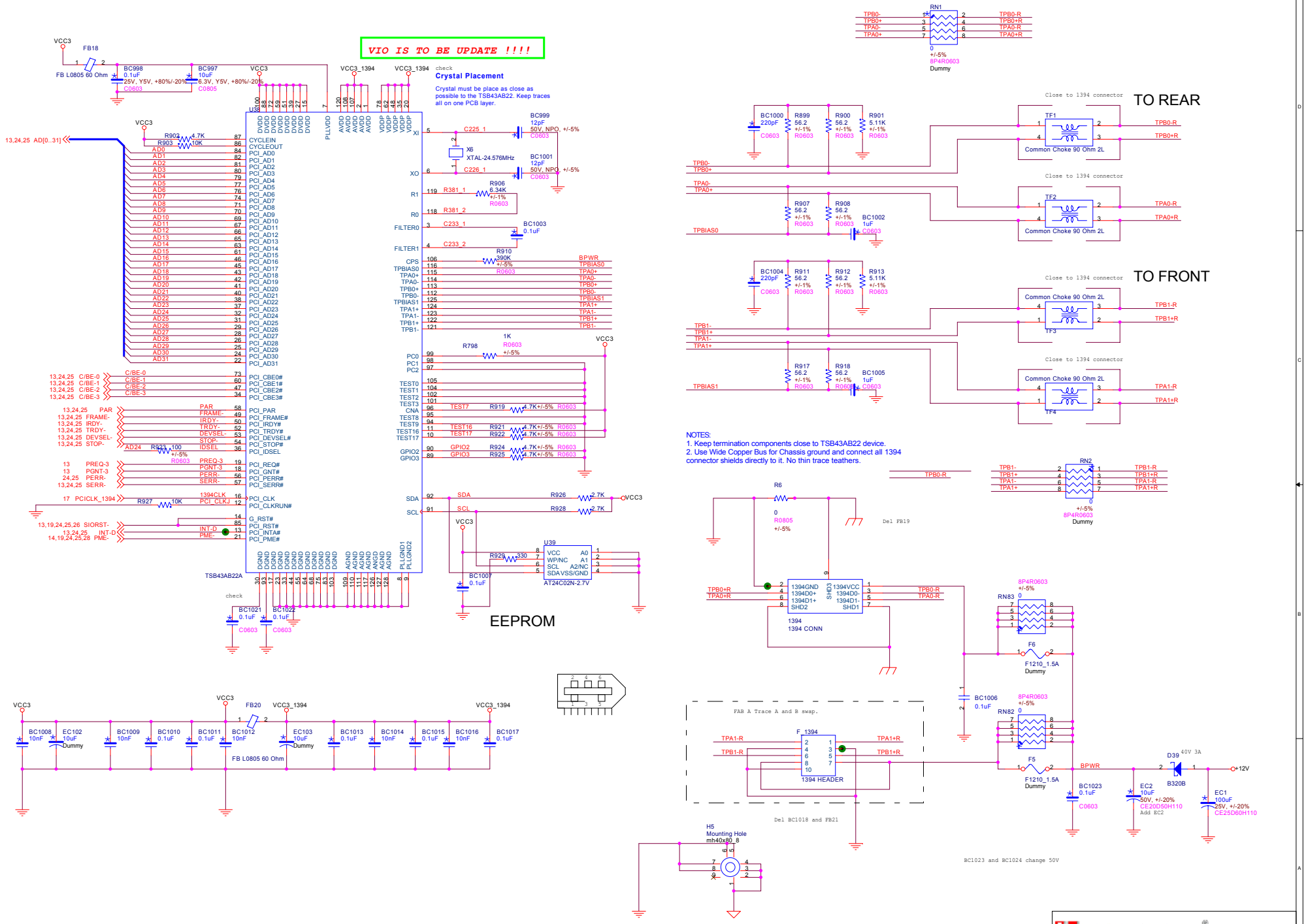
VIO IS TO BE UPDATE !!!!
Crystal Placement
Crystal must be place as close as possible to the TSB43AB22. Keep traces all on one PCB layer.
TSB43AB22A
EEPROM
AT24C02N-2.7V
FB L0805 60 Ohm
XTAL-24.576MHz
TO REAR
TO FRONT
Close to 1394 connector
Common Choke 90 Ohm 2L
NOTES:
1. Keep termination components close to TSB43AB22 device.
2. Use Wide Copper Bus for Chassis ground and connect all 1394 connector shields directly to it. No thin trace teathers.
1394 CONN
1394 HEADER
FAB A Trace A and B swap.
Del BC1018 and FB21
Del FB19
BC1023 and BC1024 change 50V
Mounting Hole mh40x80_8
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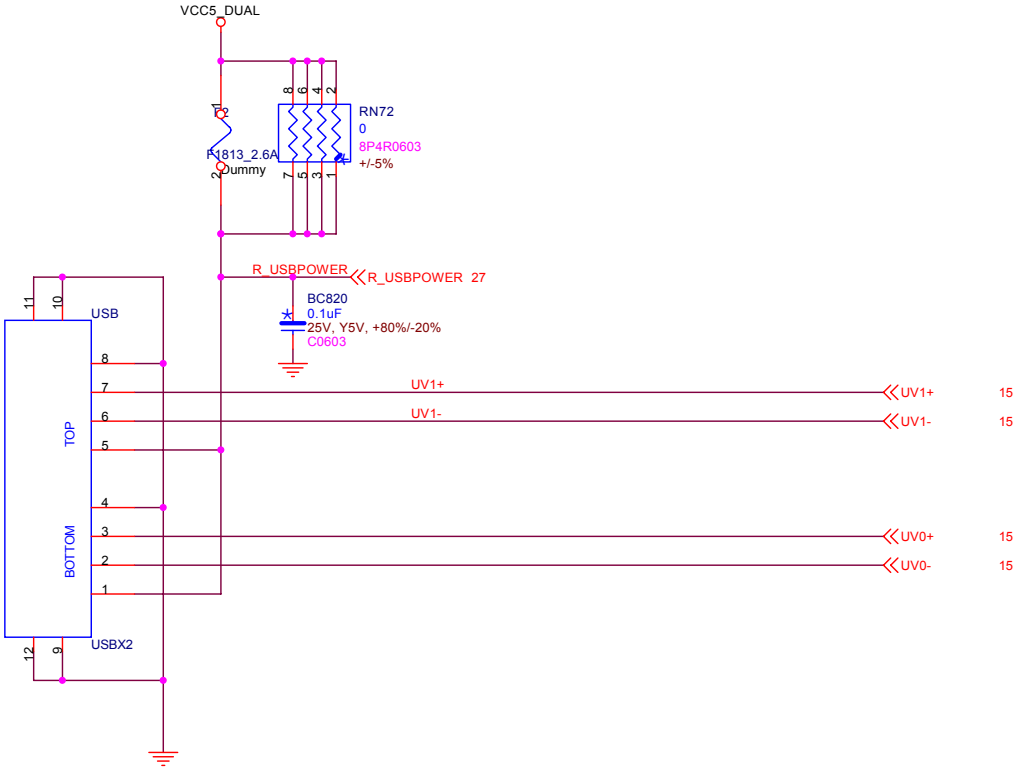

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