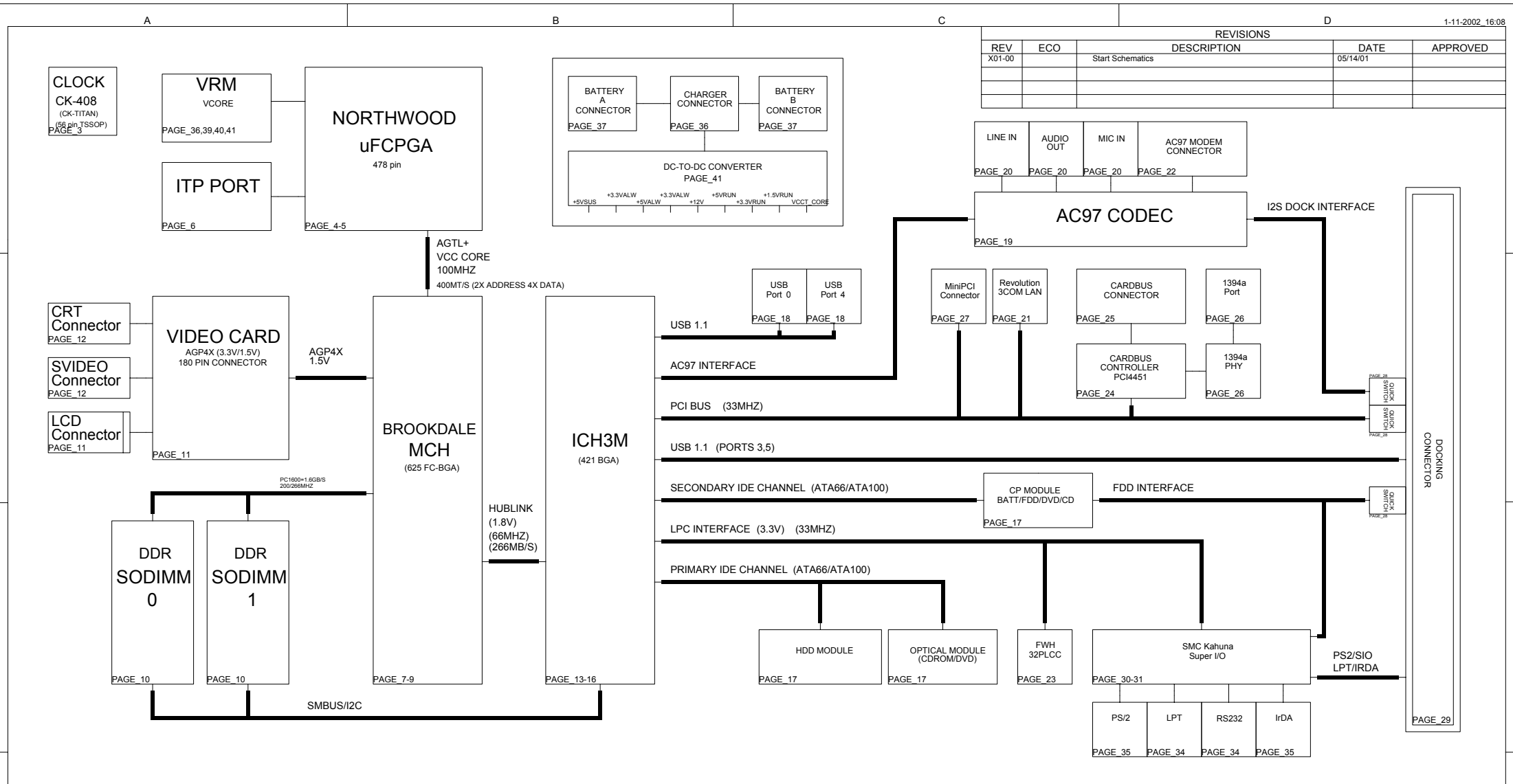




PARTS

ASSY.PWA,MN,CABN,COM (XXXXXX)

- PWA,PLN,MN,CABN,COM (2F219)
- ASSEMBLY BARCODE LABEL (XXXXXX)
- ASSY.DWG,PLN,MN,CABN (0F681)
- PWB,PLN,MN,CABN (3F195)
- SCHEM,PLN,MN,CABN (1F473)

• This design requires a font mapping of Fixed to scaleable Arial with a scaling factor of 1.0

• Please remember when copying project files that you must include both the symbols and the schematics

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COMANECI X05

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DELL COMPUTER CORPORATION AUSTIN, TEXAS

TITLE: SCHEM,PLN,MN,CABN BLOCK DIAGRAM

DWG NO. 1F473 REV. X04B-00

DATE 01/07/02 SHEET 1 OF 51

PAGE INDEX

- Schematic Block Diagram
- Index
- System Clock, SMBUS Selector
- CPU
- CPU Voltage ID, CPU Temperature Sensor, ITP Debug Connector
- GMCH
- SODIMM Connectors
- Video Connectors
- ICH
- CDROM, IDE Connectors
- USB Hub
- Audio Codec
- Audio Connectors, Audio Amplifiers
- 3COM Revolution (LAN On Motherboard)
- LAN and Modem Connectors
- Firmware Hub
- Cardbus Controller
- Cardbus Connector
- IEEE1394 PHY
- MiniPCI Connector
- Dock Buffers
- Dock Connector
- Super I/O Controller (Kahuna)
- Keyboard/Touchpad Connectors
- Fan Controllers and Tachometers
- Parallel and Serial Ports
- PS2 Connectors, LED Connector, Power Sequencing Logic
- DC-IN Connector, Charger Board Connector
- Battery Connectors, NiMH Support
- Power Plane Enables
- 1.8V/1.5V Switcher and Sequencer, RTC Power Source
- VCORE
- DC to DC Converter
- Mounting Holes and EMI Clips
- Schematic Change List
- Power Rail Diagram
- SMBUS Diagram
- REFDES Page Index

NEEDS TO BE UPDATED

POWER MODES

Power Mode	Voltage	Page	Source	ON	OFF
RBAT	7.2V	32, 36		Always	
PBATT+	17V-13V	36, 37, CB - 3		Always	
SBATT+	17V-13V	36, 37, CB - 3		Always	
DOCK_DC_IN	20V	29, 36		Always	
DC_IN	20V	29, 36, CB - 2, 3		Always	
SDC_IN	20V	CB - 2, 3		Always	
V_CHG	15V-17.5V	CB - 2		Note 1	
PWR_SRC	7.2V-20V	8, 11, 29, 36, 38, 39, 40, 41		Always	
RTCSRC	7.2V-20V	36, 39		Always	
3VSUS	3.3V	4, 6, 10-16, 18, 21-25, 27, 30-31, 35, 38-41		S1-S3	S4-S5
RTC_PWR	5V	36, 38, 39, 41, 42		Always	
5VSUS	5V	8, 11, 16, 18-19, 22, 25, 29, 33-35, 38-42		S1-S3	S4-S5
2.5VSUS	2.5V	8-10, 39		S1-S3	S4-S5
VCC_CORE	0.6V-1.75V	4, 5-9, 16, 23, 38-40		S1-S2	S3-S5
12V	12V	3, 11, 25, 29, 33, 36, 38, 41		S1-S2	S3-S5
DOCK_PWR_SRC	13V-20V	29		Docked ALW	
3VRUN	3.3V	3, 4, 6, 11, 13-14, 16-17, 19, 21-23, 26-28, 30-31, 33, 35, 38		S1-S2	S3-S5
VALUX	3.3V	27		Note 2	Note 2
1.8VSUS	1.8V	16, 38-39		S1-S3	S4-S5
1.8VRUN	1.8V	7, 8, 9, 13, 16, 38		S1-S2	S3-S5
5VRUN	5V	6, 11-12, 16-17, 20, 27-28, 30, 32-35, 38, 42		S1-S2	S3-S5
5VHDD	5V	17, 38		S1-S2	S3-S5
5VMOD	5V	17, 38		S1-S2	S3-S5
1.5VRUN	1.5V	7, 9, 11, 38-39		S1-S2	S3-S5
STRB- 5V	5V	29, 34, 38		S1-S2	S3-S5
VREFCG	0.7V	11		S1-S2	S3-S5
V_1P25V_DDR_VTT	1.25V	8, 10, 11, 38, 39		S1-S2	S3-S5
CRT_VCC	5V	12		S1-S2	S3-S5
5V_QDOCK	5V	28, 30		S1-S2	S3-S5
5VFDDPP	5V	17, 31, 38		S1-S2	S3-S5
5VSUS_DOCKED	5V	29		Docked S1-S3	Docked S4-S5
USB_PWR_0/4	5V	18		S1-S2	S3-S5
VDDA	4.65V	19, 20		S1-S2	S3-S5
VDDA2	2.2V	19, 20		S1-S2	S3-S5
1.2V_VCCVID	1.2V	4, 40		S1-S3	S4-S5
5VALW	5V	11, 29, 30-32, 35-37, 39, 41		Note 4	Note 4
3.3VRTC	3.3V	16, 31, 36, 39, 41		Always	
3VALW	3.3V	6, 17, 30-32, 35, 36, 39, 41		Note 4	Note 4
VCC_RTC	3.3V	14, 16		Always	
ICH_VBIAS	3.3V	14, 16		S1-S2	S3-S5
3VPHYD	3.3V	26		S1-S2	S3-S5
3VPHYA	3.3V	26		S1-S2	S3-S5
CK_VDD_MAIN	3.3V	3		S1-S2	S3-S5
CK_VDD_CORE	3.3V	3		S1-S2	S3-S5
V_3P3_LAN	3.3V	21, 22		S1-S3	S4-S5
V_3P3_LAN_VDDTX	3.3V	21		S1-S3	S4-S5
V_3P3_LAN_VDDR_X	3.3V	21		S1-S3	S4-S5
V_MCH_GTLREF	0.67xVCC_CORE	8		S1-S2	S3-S5
S1_VPP	0V-12V Note A	25		S1-S3	S4-S5
S2_VPP	0V-12V Note A	25		S1-S3	S4-S5
S1_VCC	0V-5V Note A	24, 25		S1-S3	S4-S5
S2_VCC	0V-5V Note A	24, 25		S1-S3	S4-S5
S1_VCCF	0V-5V Note A	24, 25		S1-S3	S4-S5
S2_VCCF	0V-5V Note A	24, 25		S1-S3	S4-S5
HL_REF	0.9V	8, 13		S1-S2	S3-S5
H_VCCA	1.2V	4		S1-S3	S4-S5
H_VCCIOPLL	1.2V	4		S1-S3	S4-S5
H_GTLREF	0.67xVCC_CORE	4		S1-S2	S3-S5
H_VSSA	1.2V	4		S1-S3	S4-S5
V_DDR_MCH_REF	1.25V	8, 10, 39		S1-S3	S4-S5

Note A Voltage delivered to these pins is determined from the type card inserted to the PCMCIA controller.

Note 1 Rail is available anytime AC and BATTERY are both present, and the BIOS is not inhibiting charge

Note 2	NB powered by AC	VAUX	S1-S3	S4 - S5
	NB powered by BATT	VAUX	S1-S2	S3 - S5

Note 3 Rail is available anytime the HEADPHONE jack is occupied

Note 4	NB powered by AC	3VALW	Always	
	NB powered by BATT	3VALW	S1-S3	S4 - S5
	NB powered by AC	5VALW	Always	
	NB powered by BATT	5VALW	S1-S3	S4 - S5

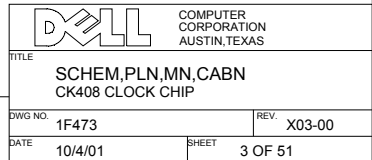
PCI TABLE

DEVICE	IDSEL	IRQ	REQ/GNT	DREQ/DGNT
DOCK	AD24	PIRQC*		REQ0*/GNT0*
3COM	AD16	PIRQC*		REQ4*/GNT4*
VIDEO	IDSEL	PIRQA* PIRQB*		
PC14451	AD17	PIRQD*	REQB*/GNTB*	REQ1*/GNT1*
M3i	AD18	PIRQA*	REQA*/GNTA*	REQ2*/GNT2*
MINIPCI	AD19	PIROB* PIRQD*		REQ3*/GNT3*

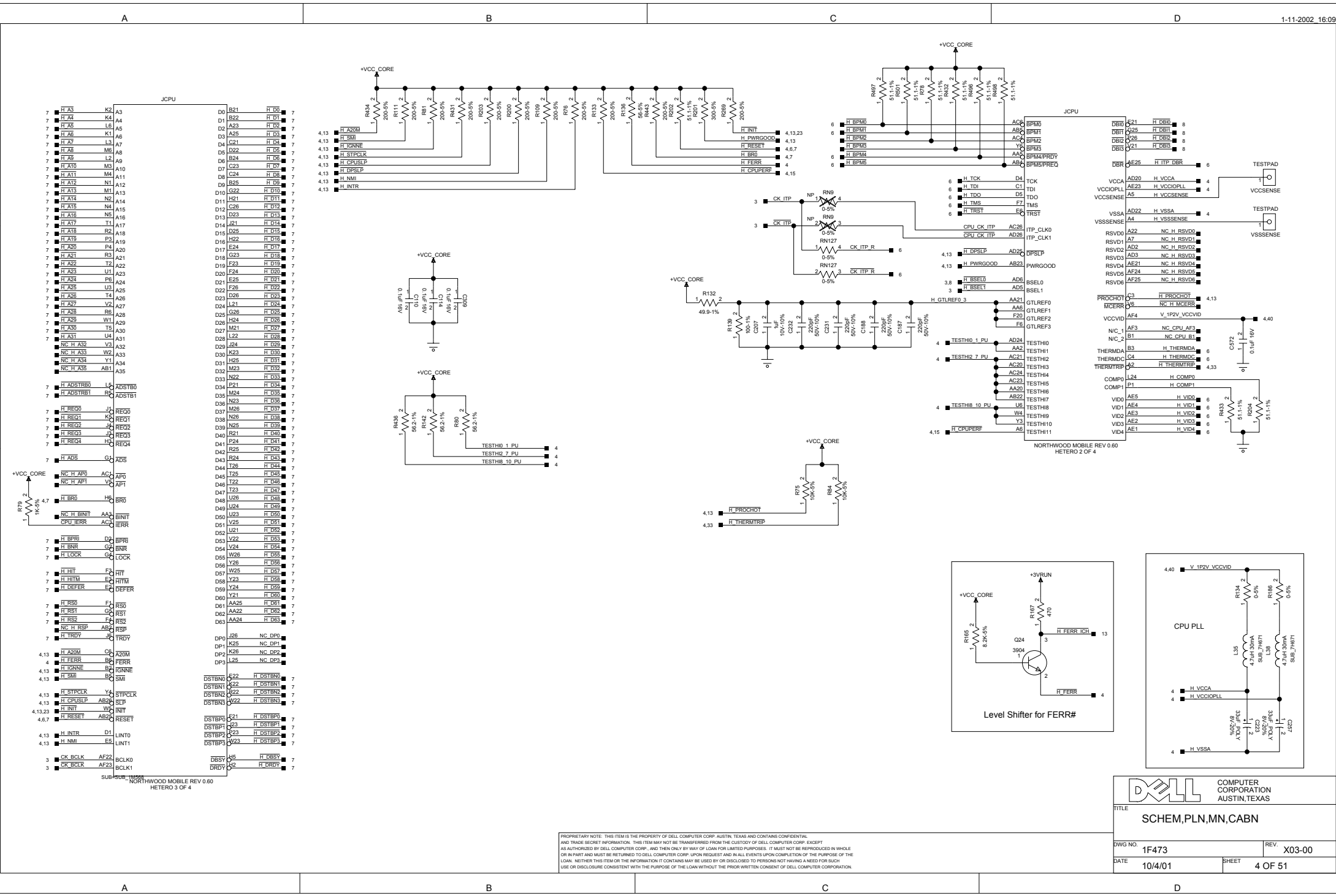
BOM BUILD OPTIONS	
Option	Description
0	Base Build
1	FDD PP

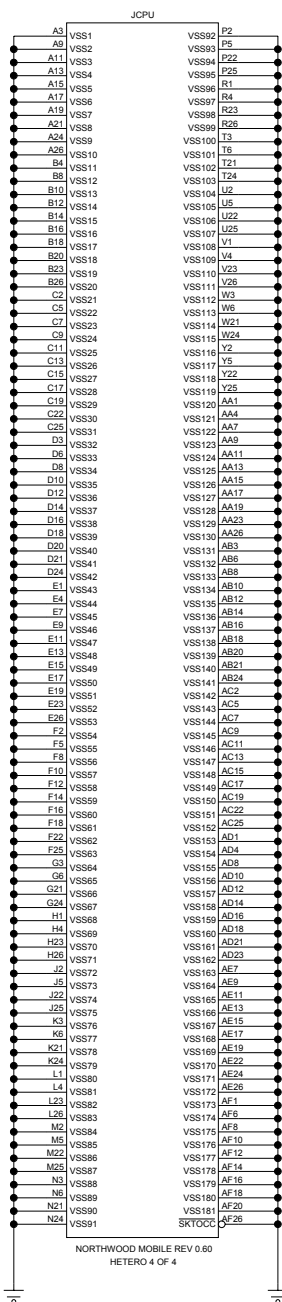
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TITLE SCHEM,PLN,MN,CABN SCHEMATIC INFORMATION			
DWG NO. 1F473		REV. X03-00	
DATE 10/4/01	SHEET 2 OF 51		

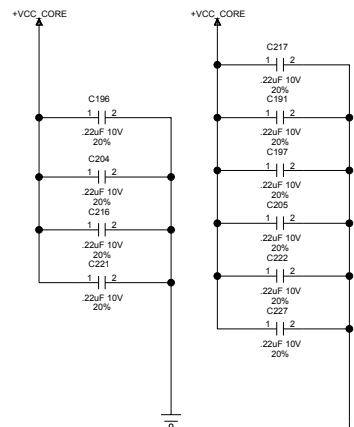


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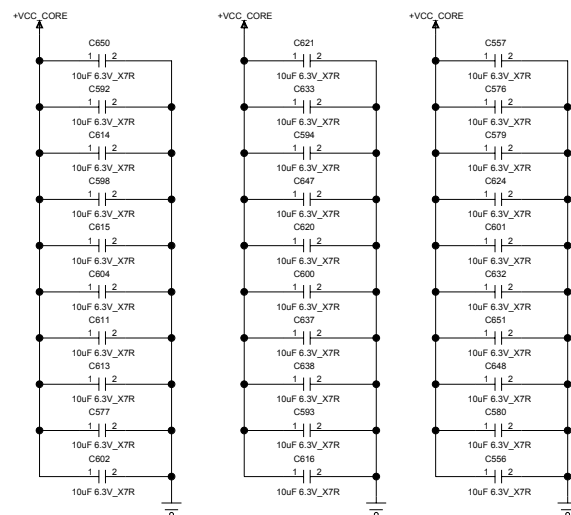




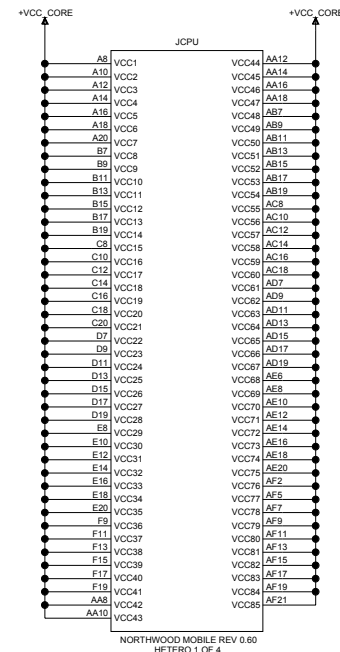
CPU High Frequency Decoupling



CPU Bulk Decoupling

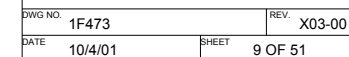


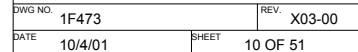
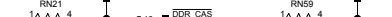
Place caps close to JCPU
ALL CAPS NEED TO BE PLACED
DIRECTLY UNDER JCPU, WHEN
POSSIBLE USE TWO VIAS/PAD



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		SCHEM, PLN, MN, CABN	
DWG NO. 1F473		REV. X03-00	
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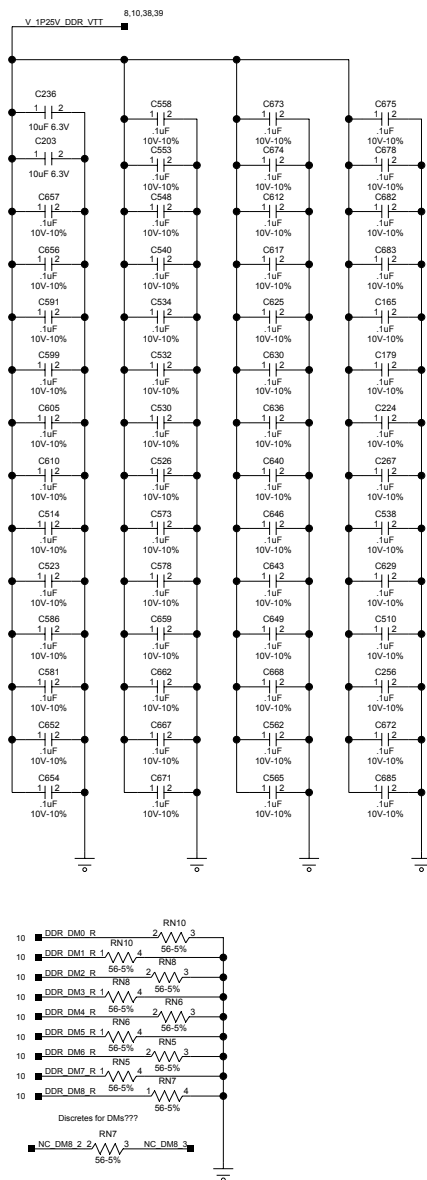
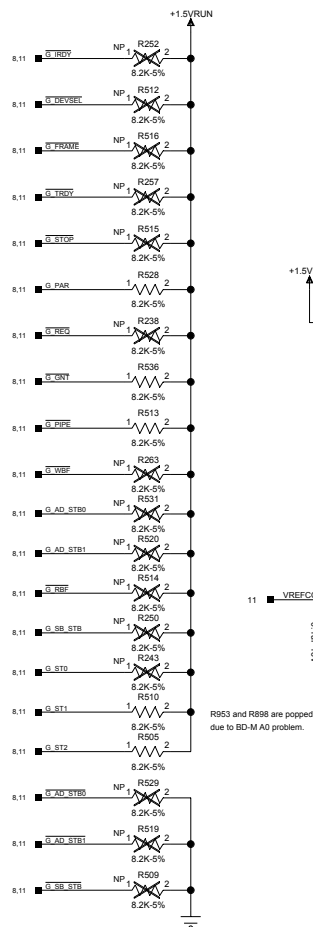
A

B

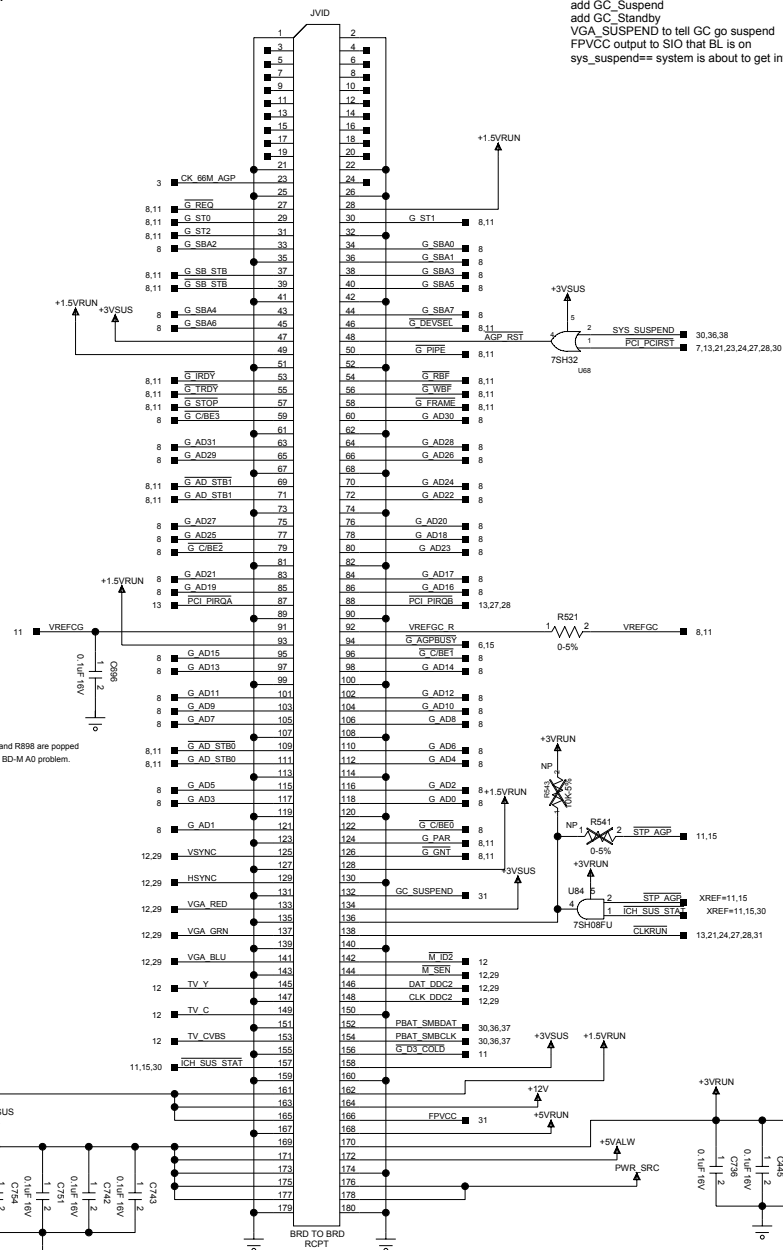
C

D

DDR VTT decoupling.

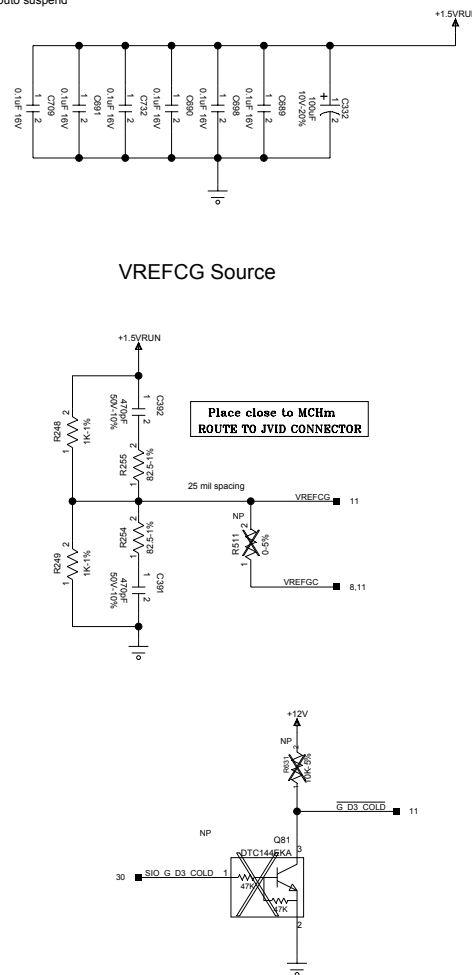
AGP pullups: matches Meteor.
Verify pullups in Brookdale.

VGA Board Connector



vga-off==vga_suspend
v_vga== comes from 3VSUS and 5vSus
add GC_Suspend
add GC_Standby
VGA_SUSPEND to tell GC go on suspend
FPVCC output to SIO that BL is on
sys_suspend== system is about to get into /outo suspend

VREFCG Source



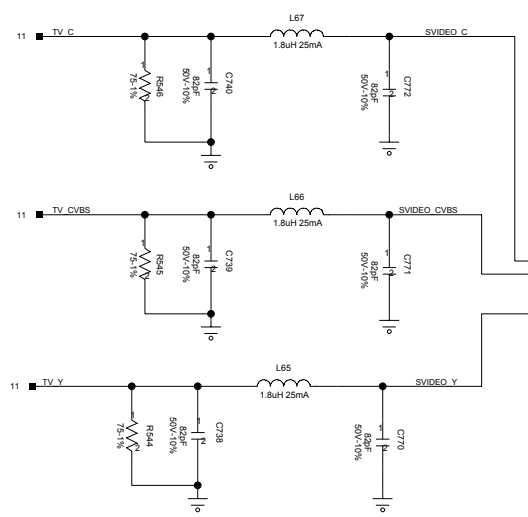
COMPUTER CORPORATION
AUSTIN, TEXAS

SCHEM,PLN,MN,CABN
AGP VIDEO CONNECTOR

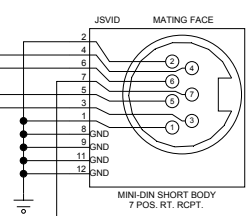
DWG NO. 1F473 REV. X03-00

SHEET 11 OF 51

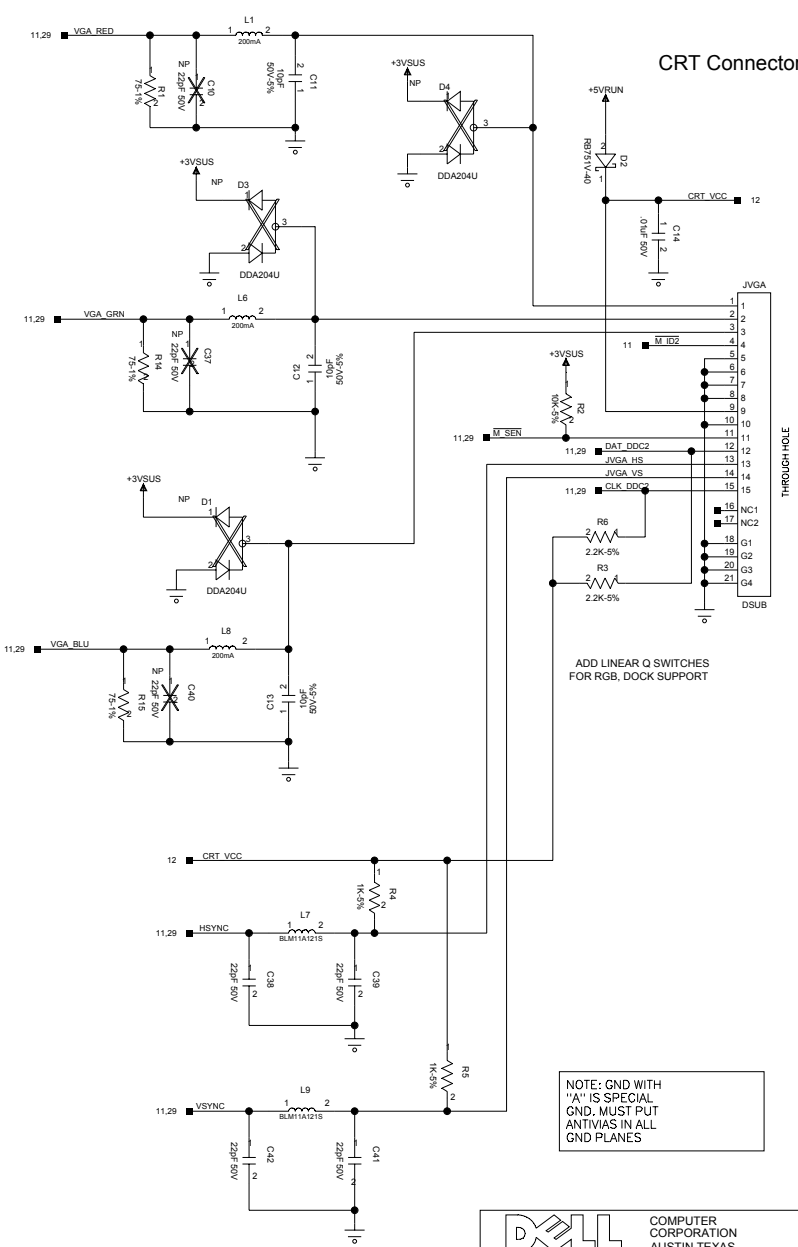
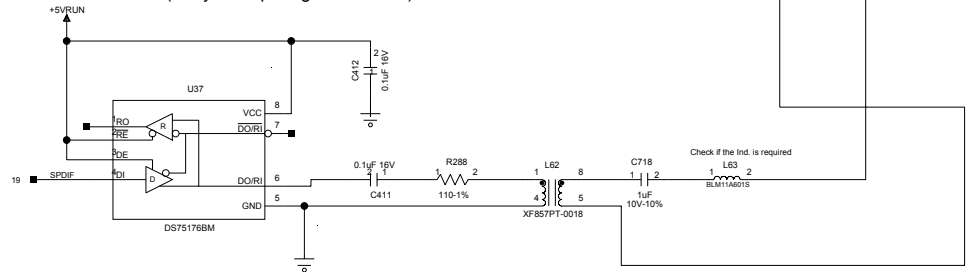
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S-Video Connector



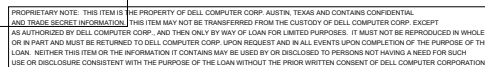
S/PDIF Interface
(Sony / Philips Digital Interface)

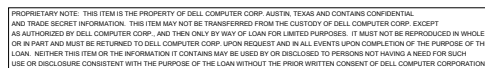


NOTE: GND WITH "A" IS SPECIAL GND. MUST PUT ANTIVIAS IN ALL GND PLANES

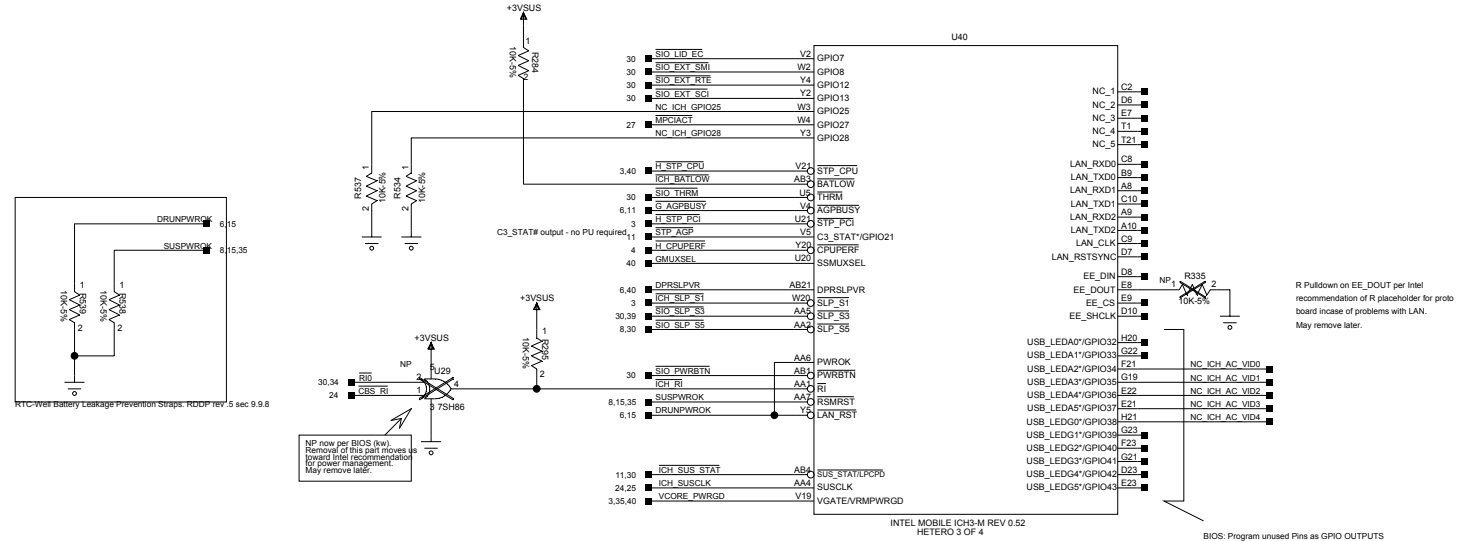
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TITLE		SCHEM,PLN,MN,CABN VIDEO CONNECTOR	
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	12 OF 51





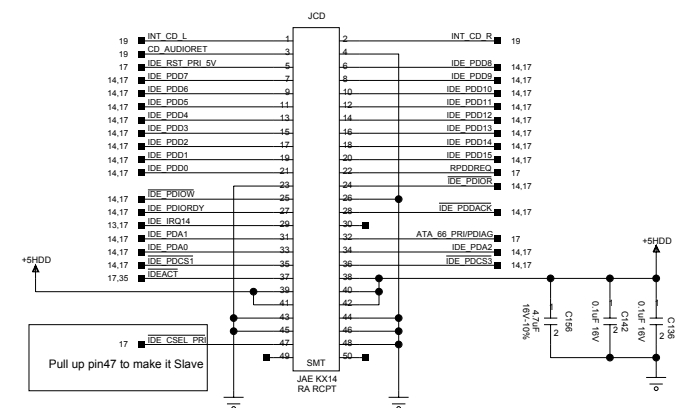
ICH3-M (3/4)
PWR MGMT / LAN / USBLED Interface



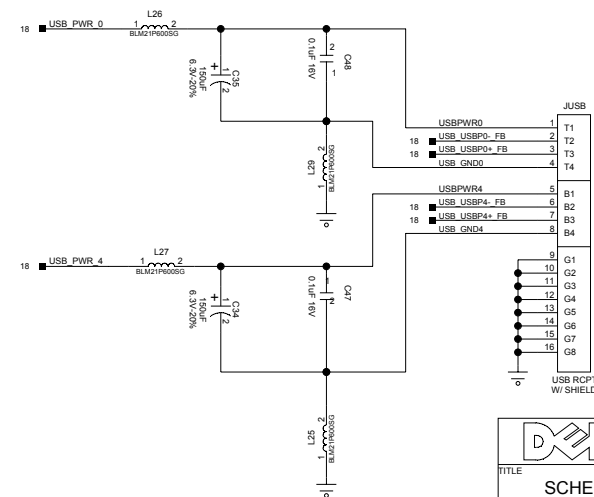
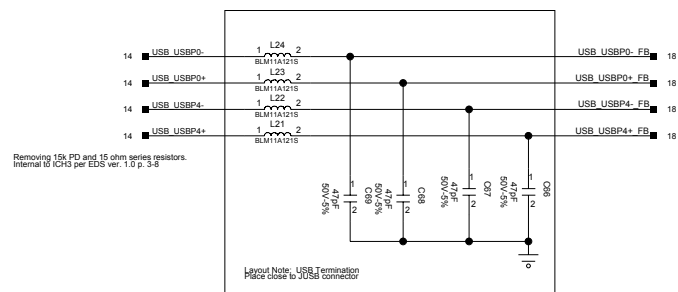
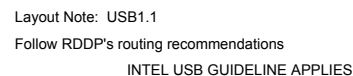
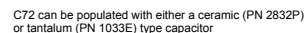
DELL COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM,PLN,MN,CABN ICH3M 3/4	
DWG NO. 1F473	REV. X03-00
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DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	17 OF 51

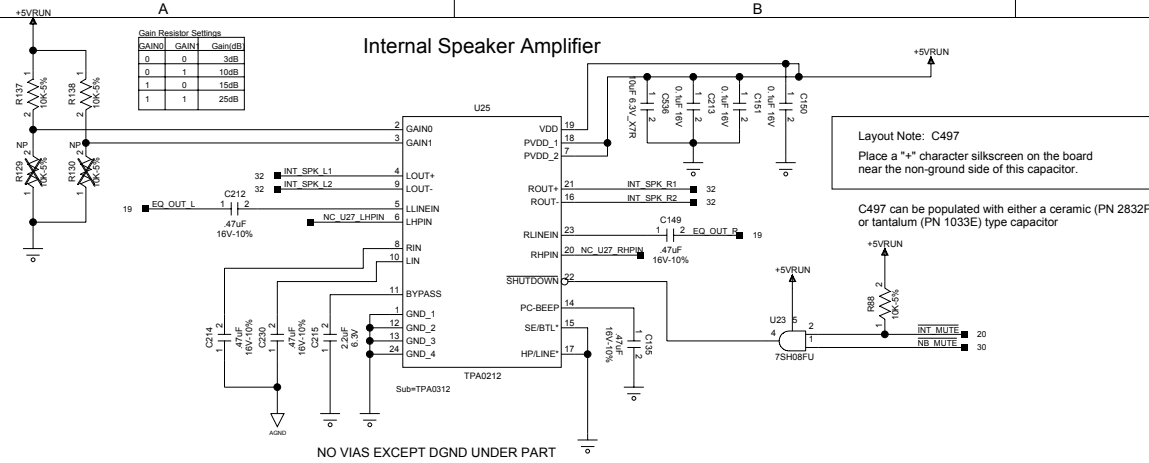


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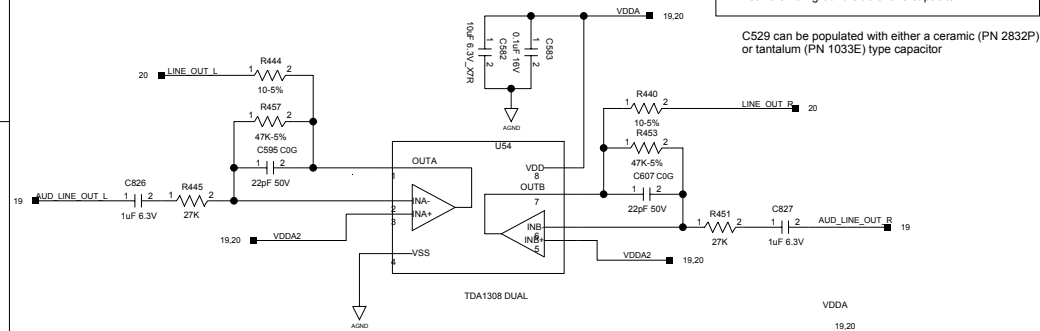


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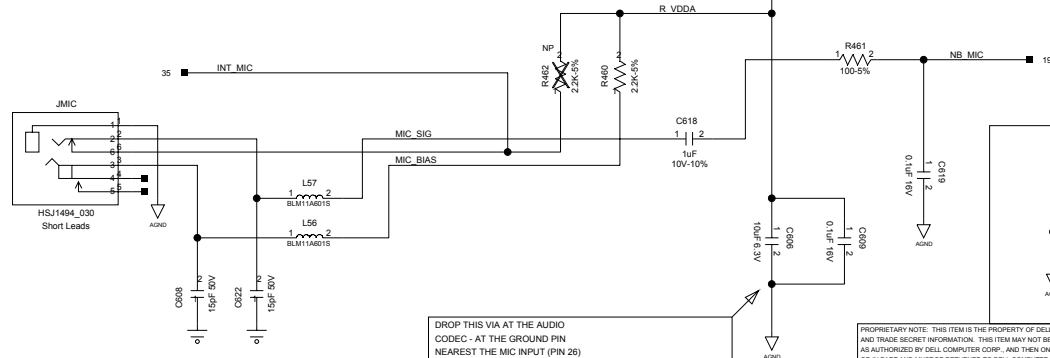
Internal Speaker Amplifier



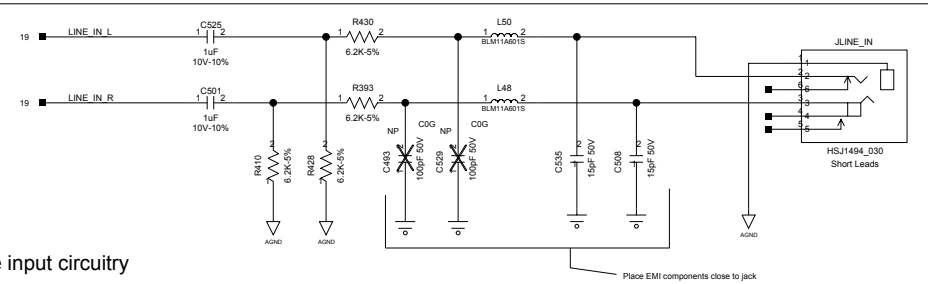
Headphone/Line Out Amplifier



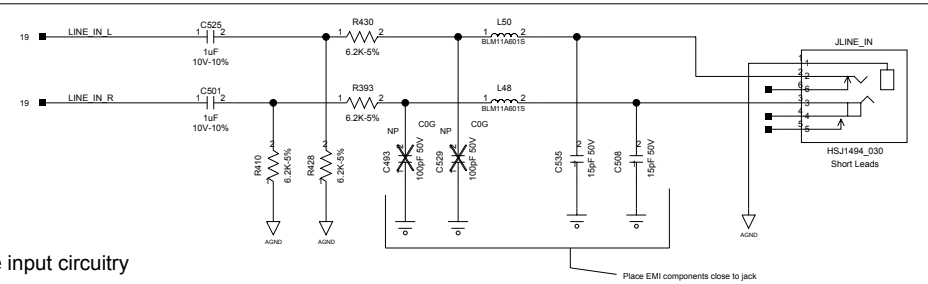
Microphone Input Circuit



Line output circuitry



Line input circuitry



NOTE: ECAD MUST
CONNECT AGND
TO GND (VIA DRAWBRIDGE)!!!
60 MIL TRACE AT ONE POINT
ONLY UNDER THE CODEC

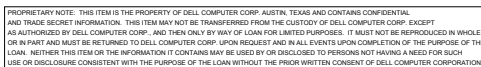
PLACE CLOSE TO AUD JACKS
on BOTTOM of Board

DELL COMPUTER CORPORATION
AUSTIN, TEXAS

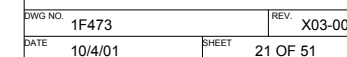
TITLE
SCHEM,PLN,MN,CABN
AUDIO 2 - CONNS

DWG NO. 1F473 REV. X03-00
DATE 10/4/01 SHEET 20 OF 51

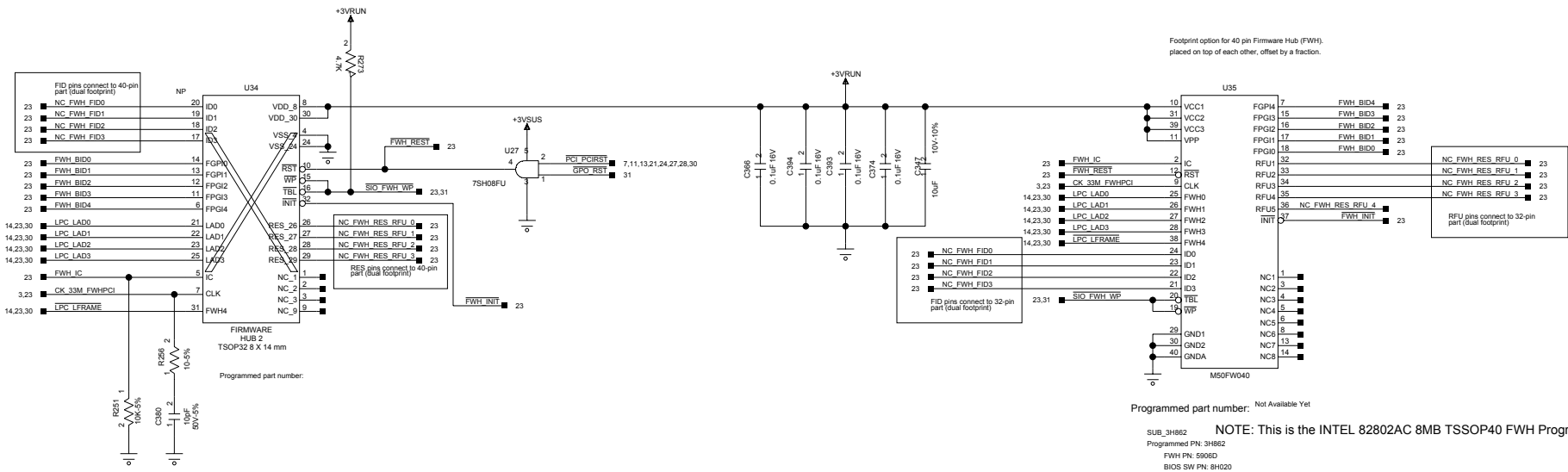
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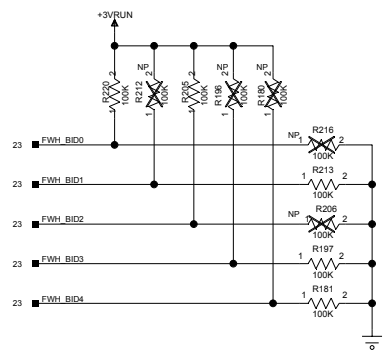
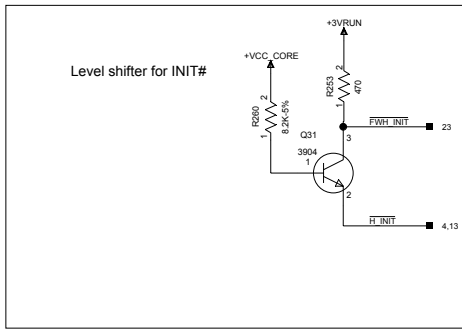
PLACE RX TERMINATION NEAR ASIC



Dual Footprint Firmware Hub (FWH) - System BIOS



Board Rev Identifier



PWB REV.	BID4	BID3	BID2	BID1	BID0
x00-00	0	0	0	0	0
x01-00	0	0	0	0	1
x02-00	0	0	0	1	0
x03-00	0	0	0	1	1
X04-00	0	0	1	0	0
X05-00	0	0	1	0	1

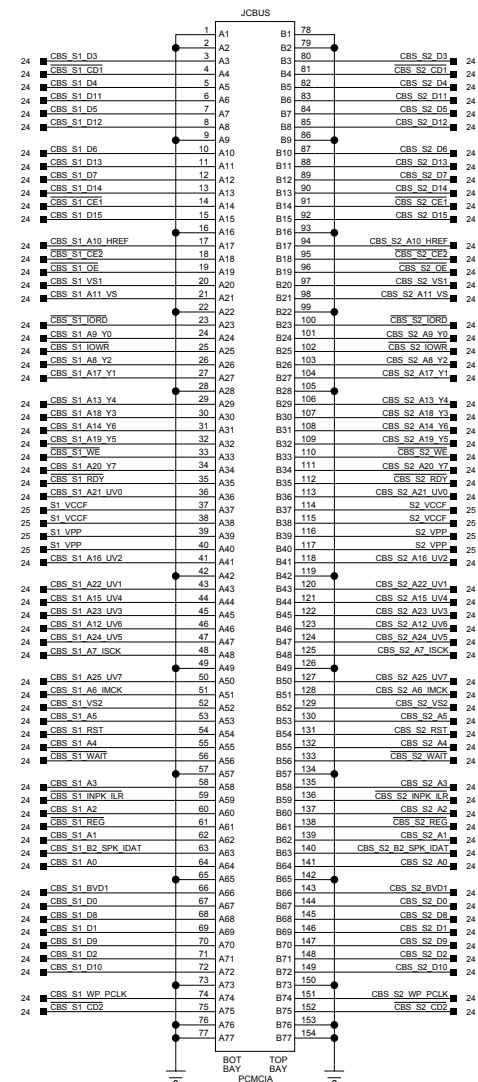
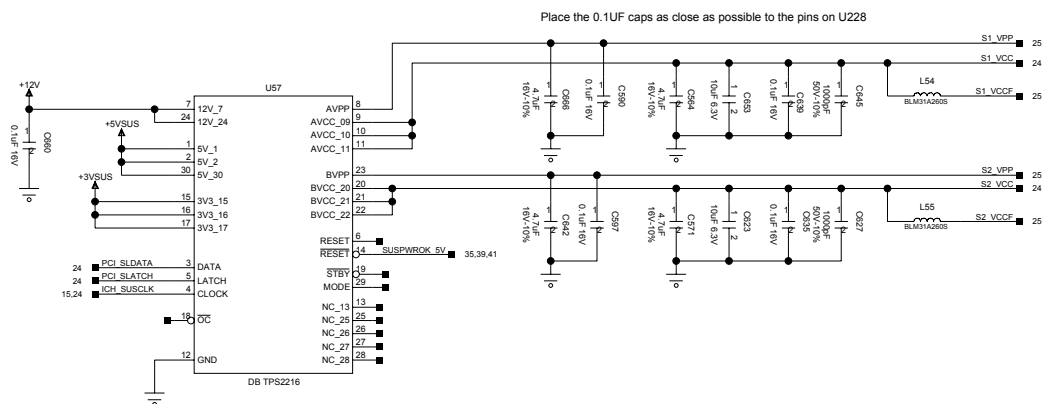
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DELL		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM,PLN,MN,CABN FWH			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	23 OF 51

PCI / PHY Interface

PC Card Connectors

PC Card Slot Voltage Selector



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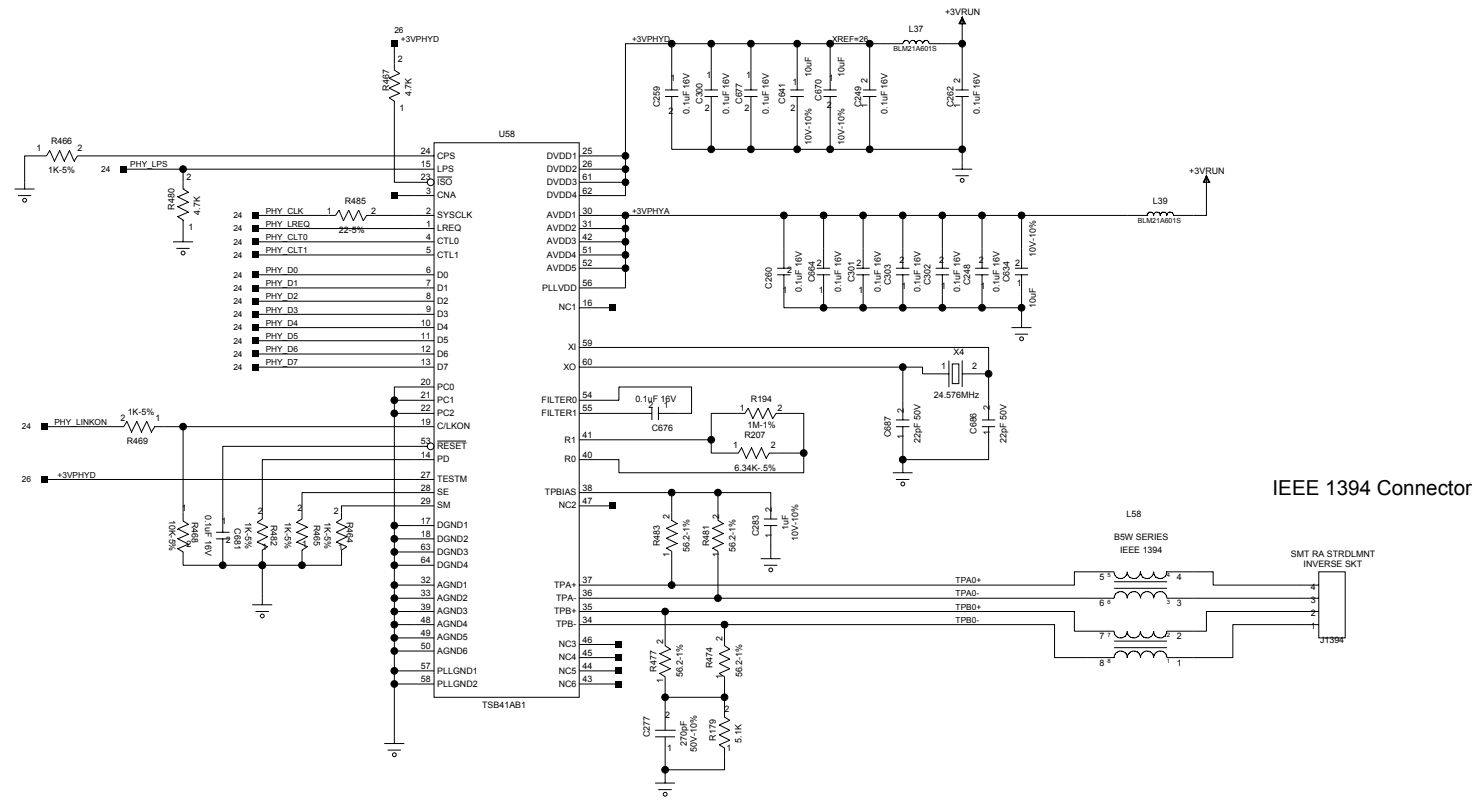
COMPUTER
CORPORATION
AUSTIN, TEXAS

TITLE
SCHEM,PLN,MN,CABN
CARDBUS CONNECTOR

DWG NO. 1F473 REV. X03-00

DATE 10/4/01 SHEET 25 OF 51

IEEE 1394 Phy

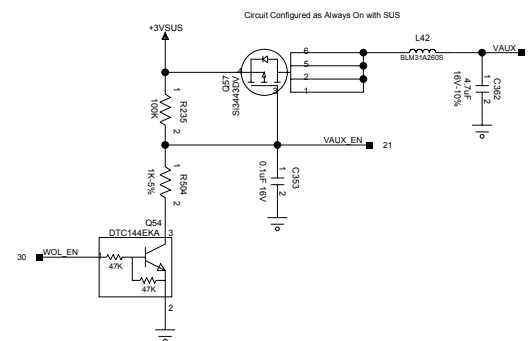
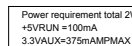


IEEE 1394 Connector

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		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM,PLN,MN,CABN 1394 PHY			
DWG NO. 1F473		REV. X03-00	
DATE 10/4/01		SHEET 26 OF 51	

C699 can be populated with either a ceramic (PN 2832P) or tantalum (PN 1033E) type capacitor



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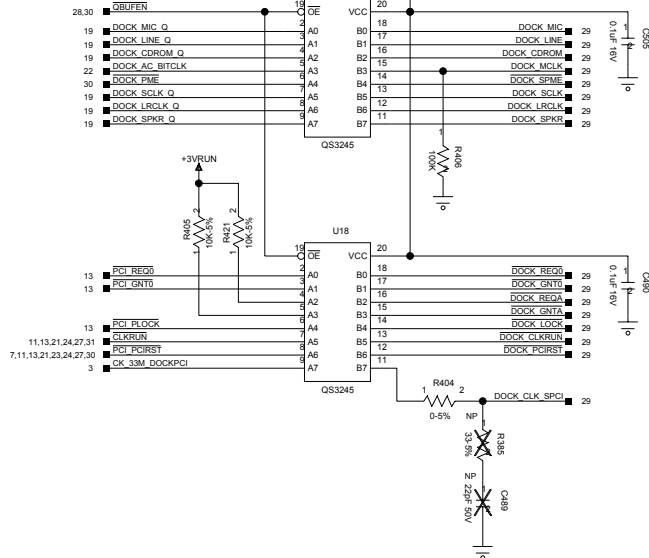
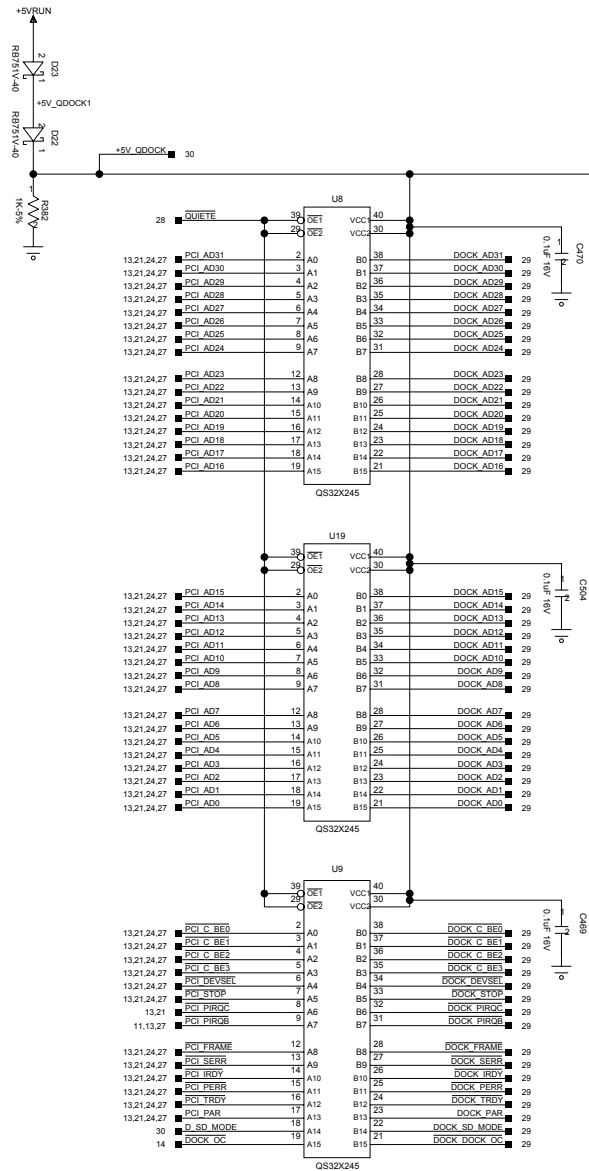


TITLE SCHEM,PLN,MN,CABN
MINIPCI CONNECTOR

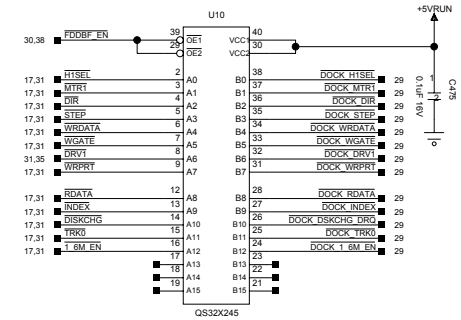
DWG NO.	1E472	REV.	Y02.00
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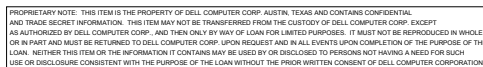
DATE	10/4/01	SHEET	27 OF 51
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Dock PCI Bus Buffers

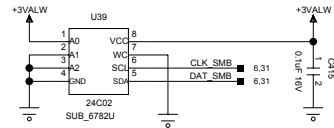


Dock FD Buffer



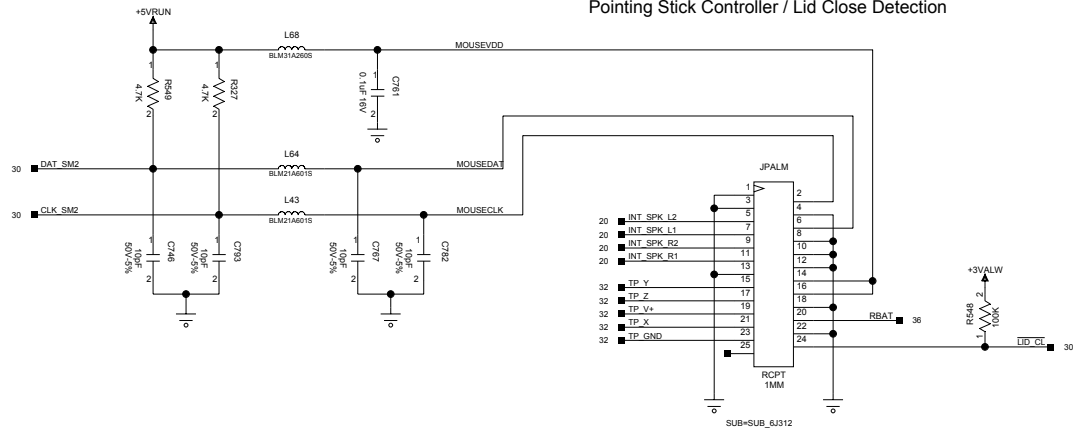


EEPROM (Service/Asset Tag, etc.)



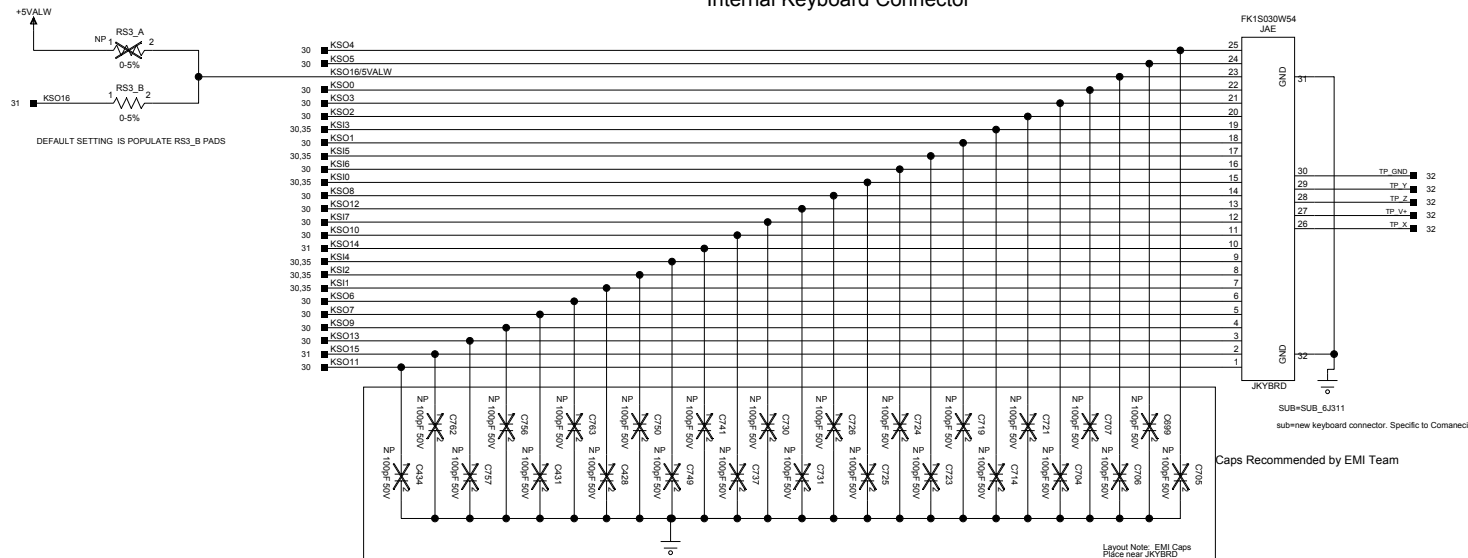
Palm Rest Connector

Rbat / Speakers / Touch Pad /
Pointing Stick Controller / Lid Close Detection



Sub= Swapped Connector between Palm rest and Connector originally on MB

Internal Keyboard Connector



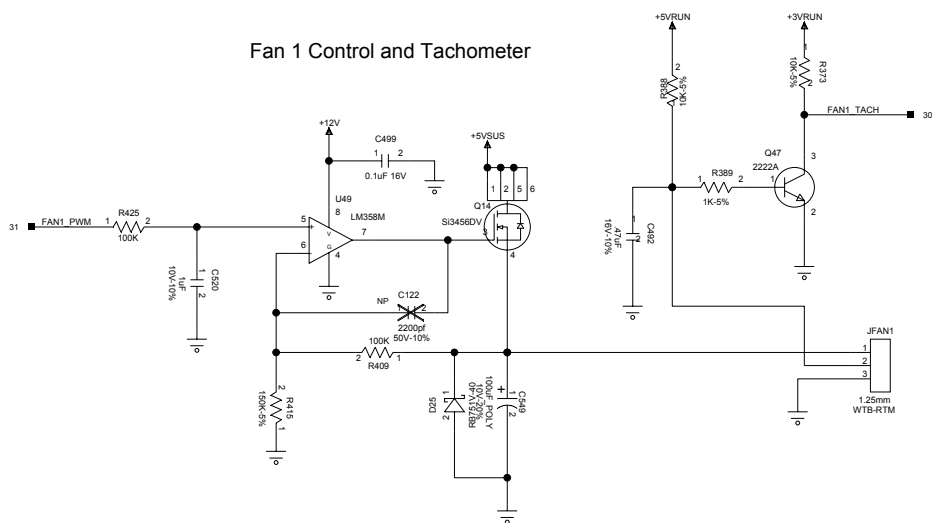
Caps Recommended by EMI Team

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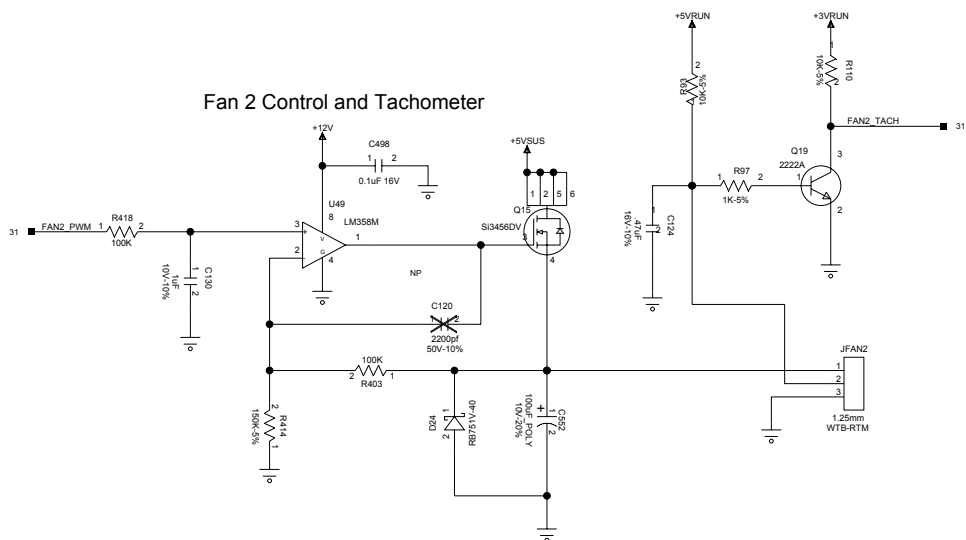
		COMPUTER CORPORATION AUSTIN, TEXAS	
		TITLE SCHEM,PLN,MN,CABN I/O CONNECTORS, EEPROM	
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	32 OF 51

Fan Control Circuit

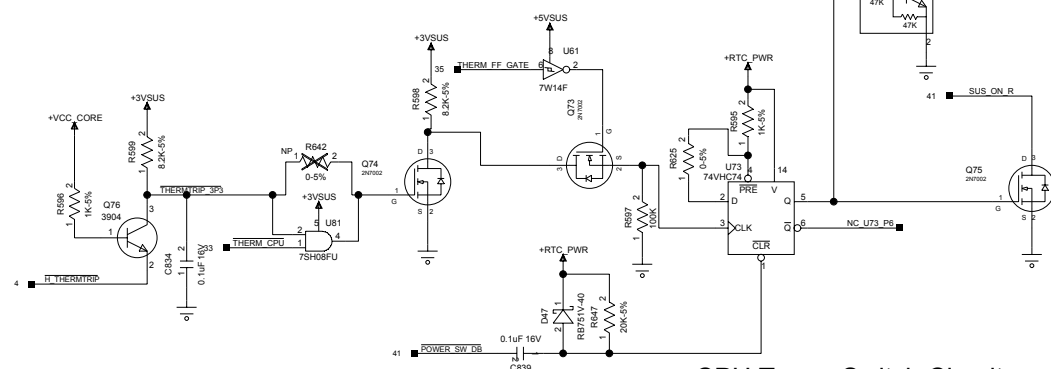
Fan 1 Control and Tachometer



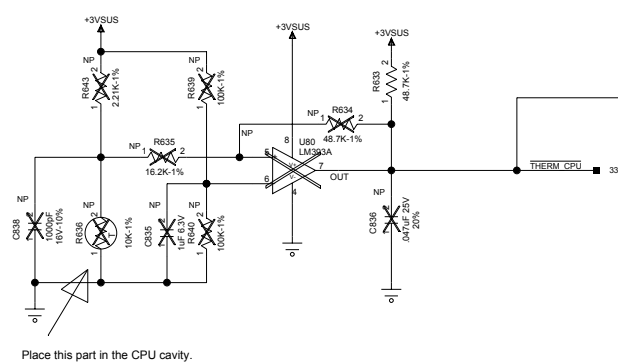
Fan 2 Control and Tachometer



Thermtrip Power Down Circuit

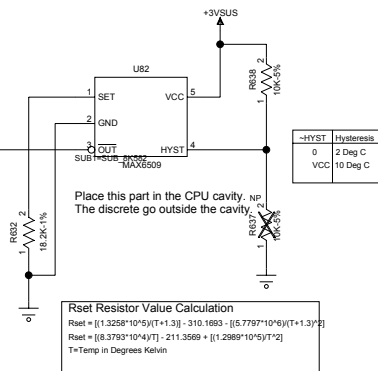


CPU Thermistor Circuit



Place this part in the CPU cavity.

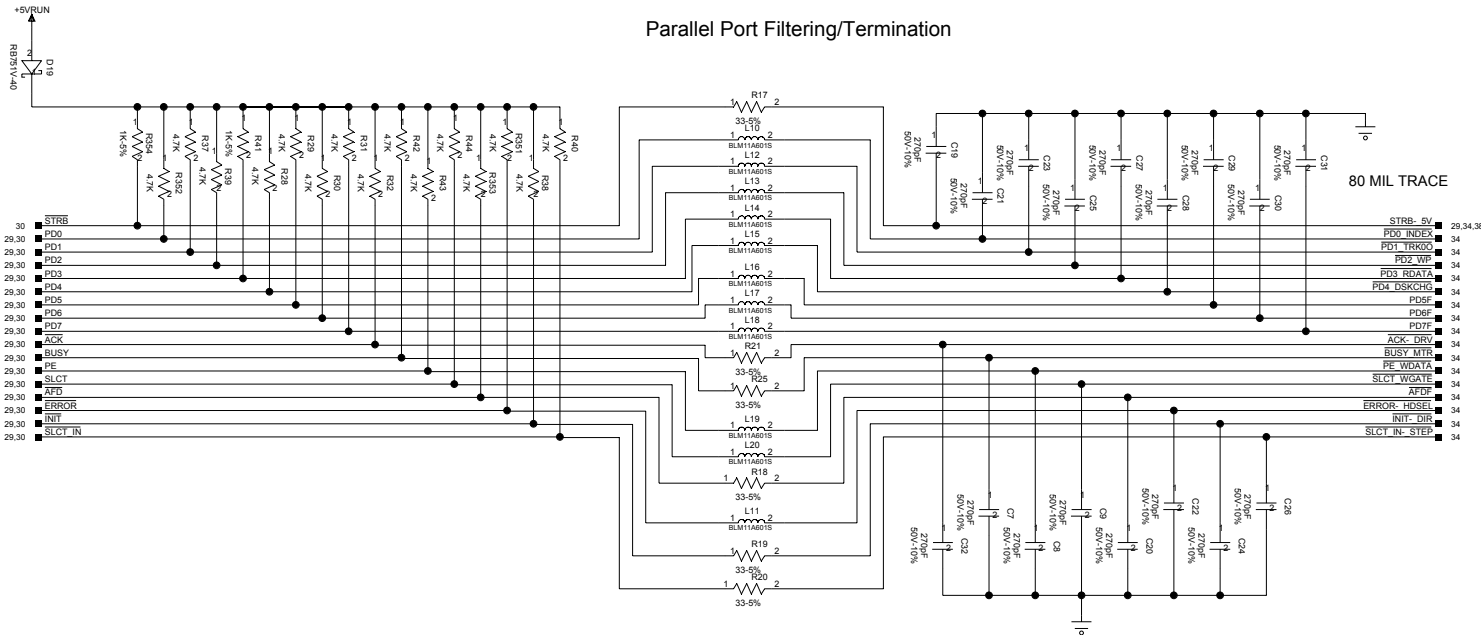
CPU Temp. Switch Circuit



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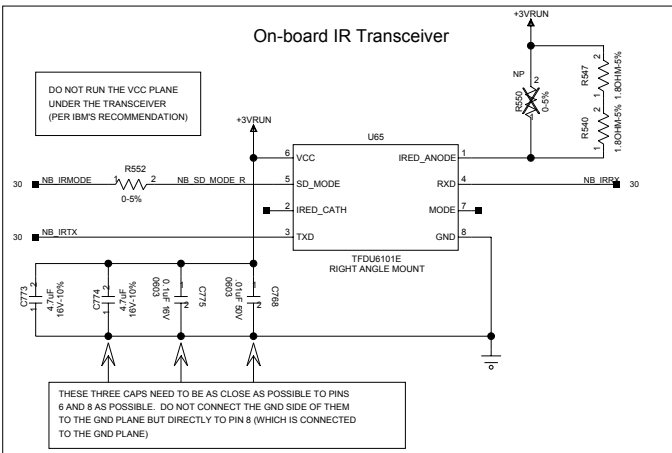
		COMPUTER CORPORATION AUSTIN, TEXAS
TITLE SCHEM,PLN,MN,CABN FAN CONTROLS		
DWG NO. 1F473	REV. X03-00	
DATE 10/4/01	SHEET 33 OF 51	

Parallel Port Filtering/Termination



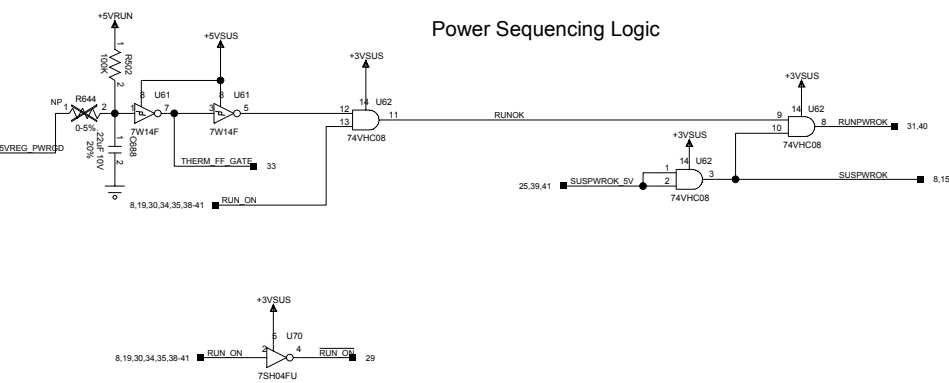
On-board IR Transceiver

DO NOT RUN THE VCC PLANE UNDER THE TRANSCEIVER (PER IBMS RECOMMENDATION)

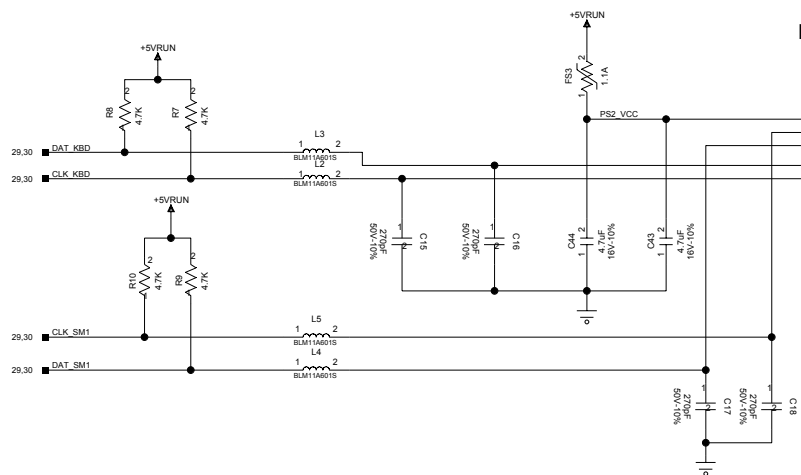


THESE THREE CAPS NEED TO BE AS CLOSE AS POSSIBLE TO PINS 6 AND 8 AS POSSIBLE. DO NOT CONNECT THE GND SIDE OF THEM TO THE GND PLANE BUT DIRECTLY TO PIN 8 (WHICH IS CONNECTED TO THE GND PLANE)

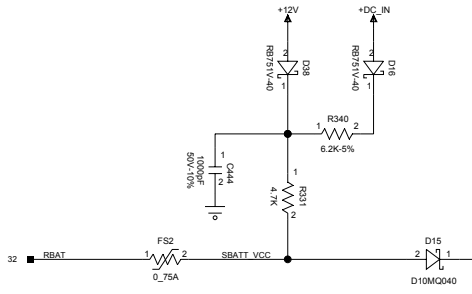
Power Sequencing Logic



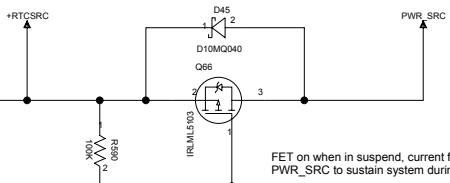
External Keyboard Connector



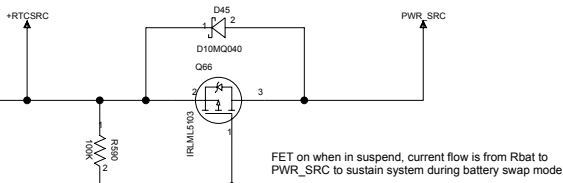
Rbat Charger



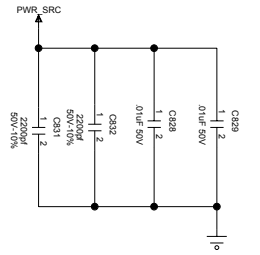
+RTCSRC Source



Rbat to PWR_SRC Enable

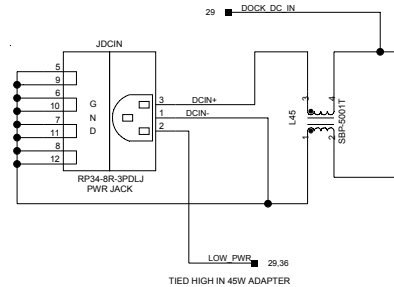


USE MULTIPLE VIAS FOR TRANSITIONS

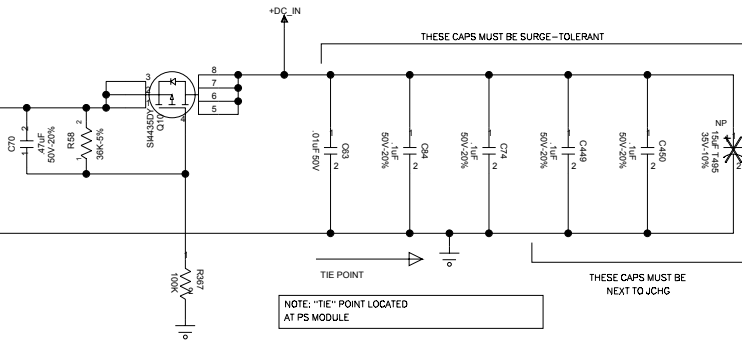


SAFETY SAYS OK FOR REMOVING THE FUSE

AC Adaptor Connector

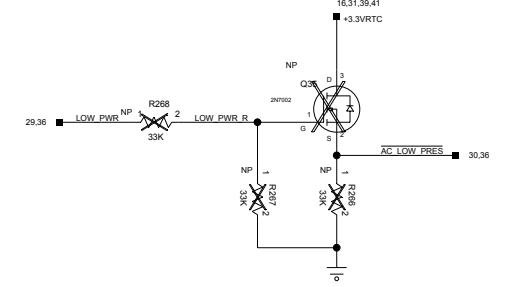


+DC_IN Source



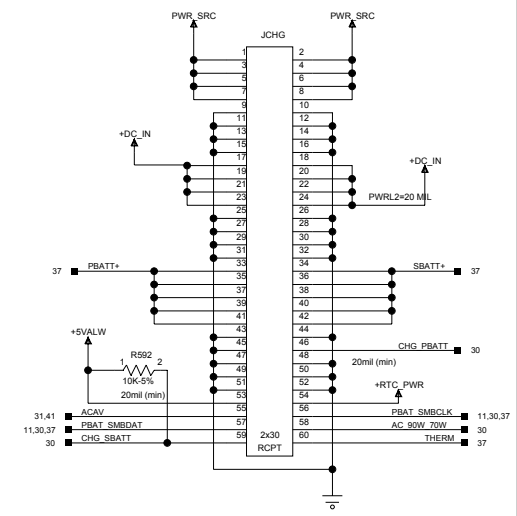
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Low-Power Adapter Detection



LOW_PWR	AC_LOW_PRES#	AC_LOW_PRES2#
0V	0	0
FLOAT	0	1
20V	1	1

Charger Board Connector

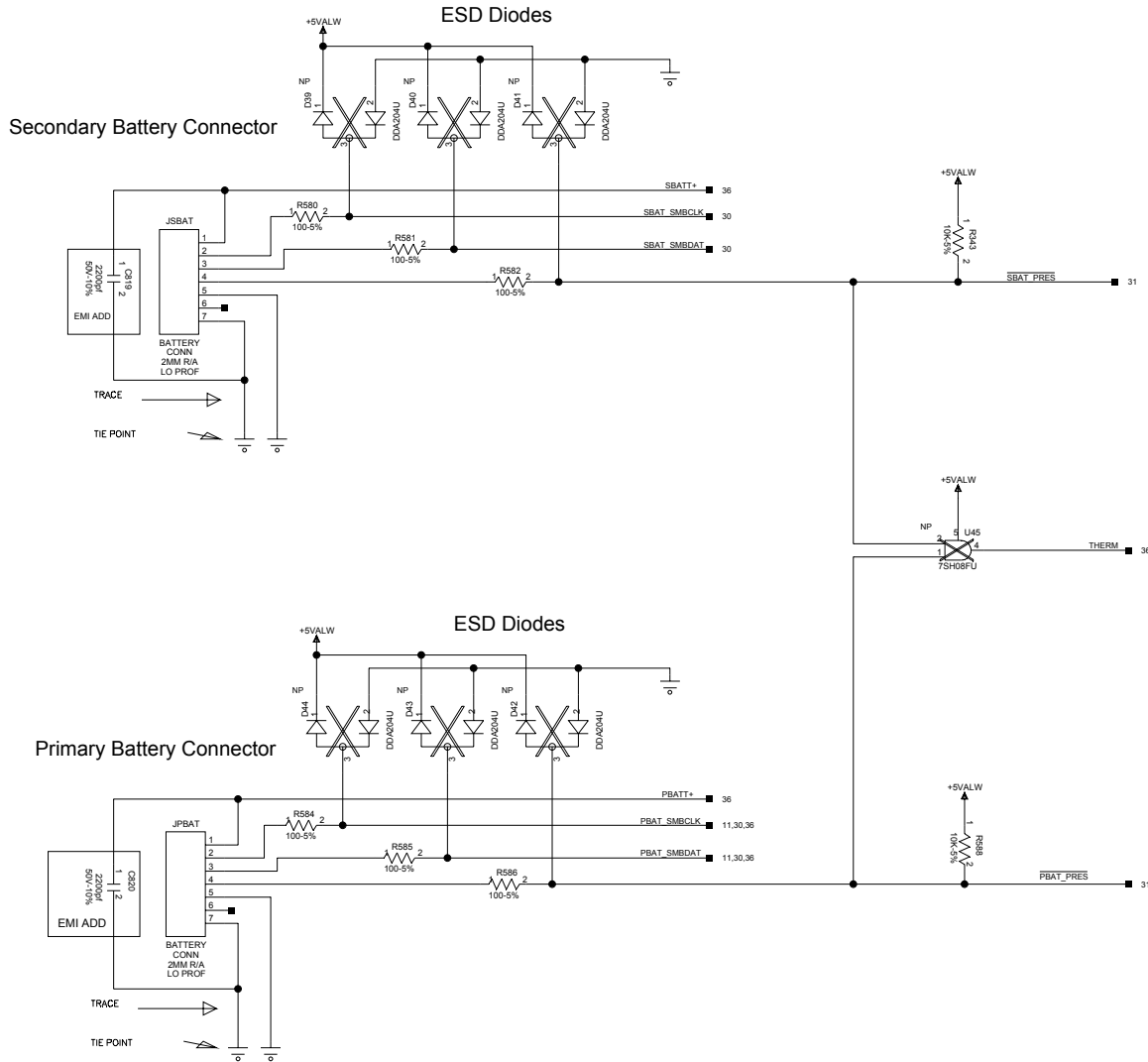


COMPUTER CORPORATION
AUSTIN, TEXAS

TITLE
**SCHEM, PLN, MN, CABN
DC IN, CHARGER BOARD CONNECTOR**

DWG NO. 1F473 REV. X03-00

DATE 10/4/01 SHEET 36 OF 51



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		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM,PLN,MN,CABN BATTERY CONNECTOR, NIMH SUPPORT			
DWG NO. 1F473		REV. X03-00	
DATE 10/4/01		SHEET 37 OF 51	

1

2

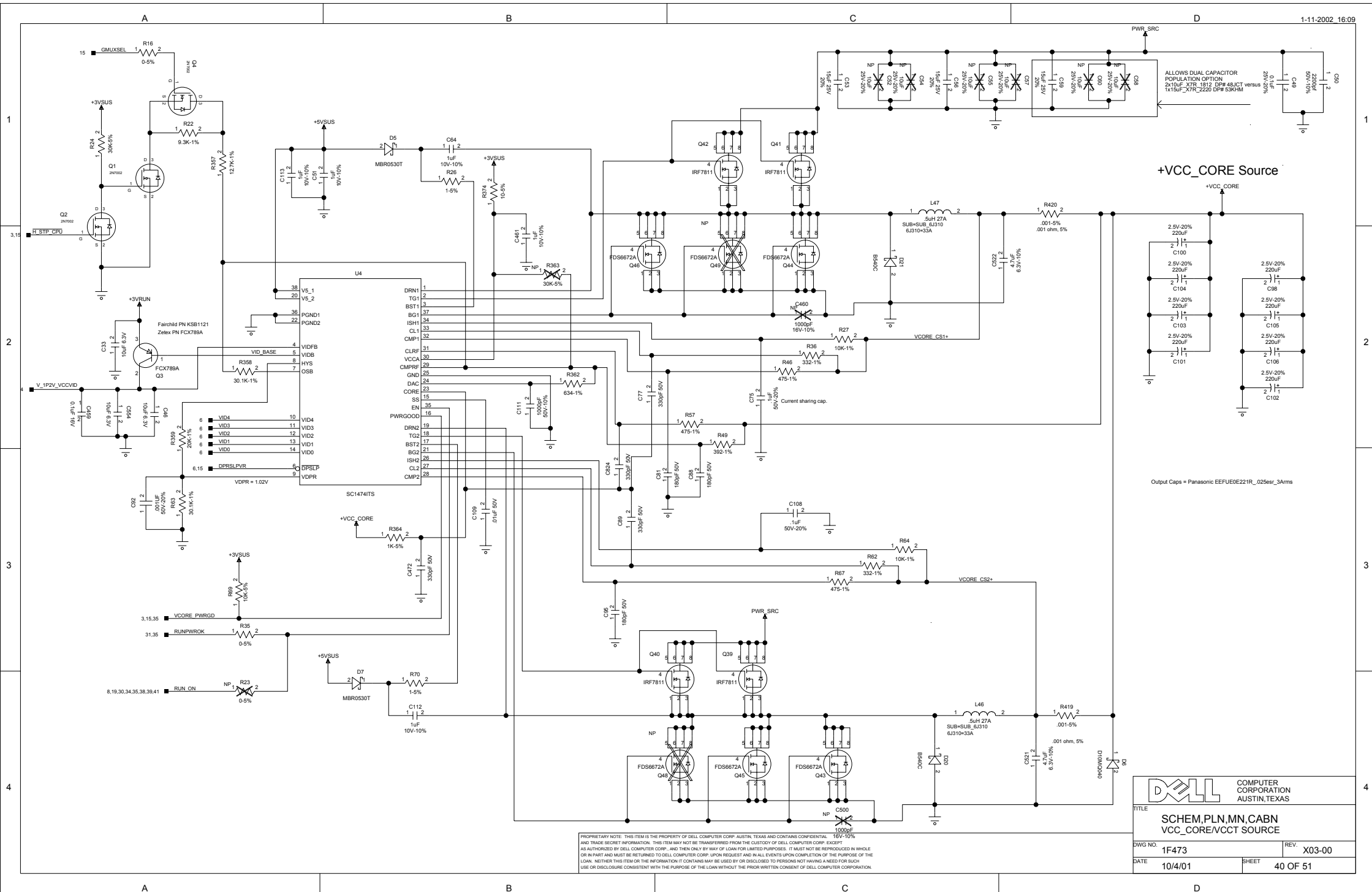
3

4

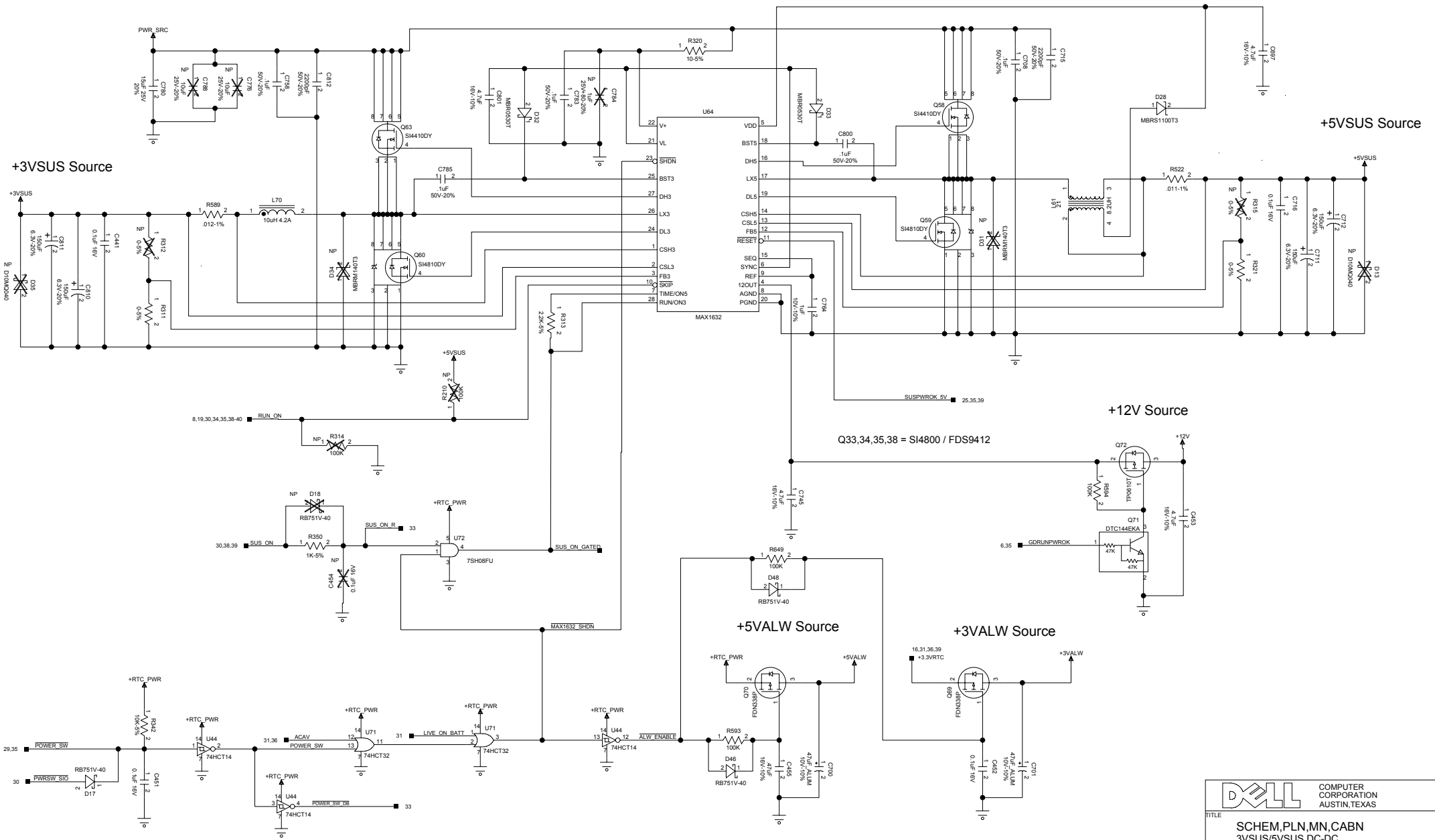
2

3

4



+5VSUS / +3VSUS PWM Controller



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COMPUTER
CORPORATION
AUSTIN, TEXAS

TITLE
**SCHEM, PLN, MN, CABN
3VSUS/5VSUS DC-DC**

DWG NO. 1F473 REV. X03-00
DATE 10/4/01 SHEET 41 OF 51

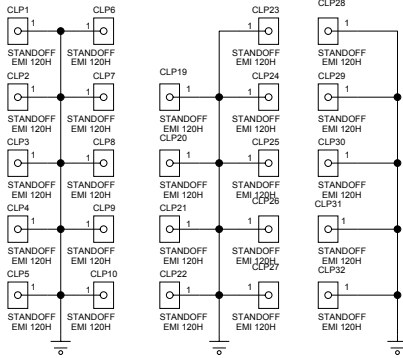
A

B

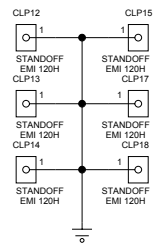
C

D

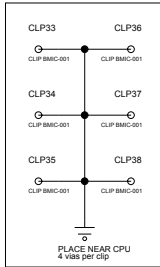
Memory Door EMI Clips



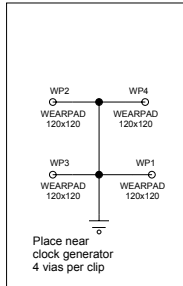
Mini-PCI Door EMI Clips



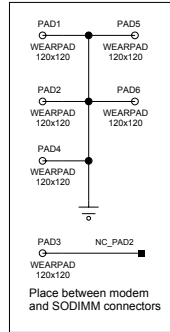
CPU EMI Clips



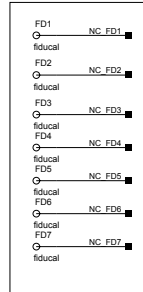
Clock Generator EMI Clips



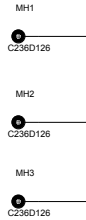
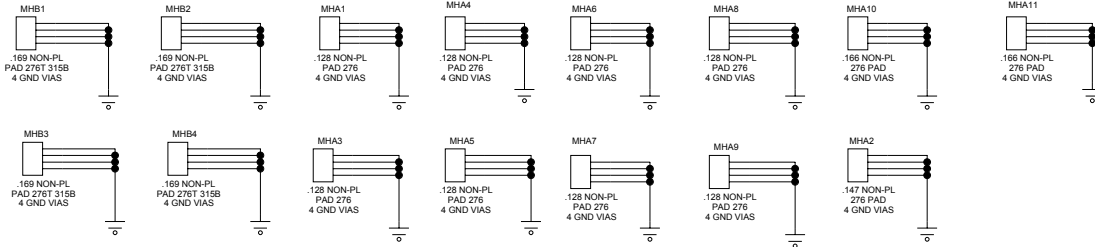
Modem Fence Pads



Fiducial mark



Mounting Holes



Xibom requires ADD attributes to be attached to an instance of a symbol (prefix I in the wire file). You may "not" rename the attributes. The required order is: ADD, ADD1, ADD2, ...

ADD=ADD*_3F195_PWB
ADD1=ADD*_1F473_SCHEM
ADD2=ADD*_0F681_ASSYDWG
ADD3=ADD*_42750_BARCODE_REVLEVEL
ADD4=ADD*_42810_BARCODE_IDLABEL
PWA 2F219

Label, REV, LEVEL, BARCODE, PWA

Label, LBL_ID, BARCODE, PWA

DELL COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM, PLN, MN, CABN MOUNTING HOLES AND EMI CLIPS	
DWG NO. 1F473	REV. X03-00
DATE 10/4/01	SHEET 42 OF 51

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Schematic Change List

X00 Change List

04/03/01
-Changed SMBus selector to SO Dimms. (pg 3)
-Added 0 Ohm resistors between SMLINK and SMBUS (pg 14)

04/12/01
-changed USB power port ferrite/capacitor circuit (pg 18)
-changed audio internal speaker amp to remove the hook to use it for the headphone port.(pg 20)

X01 Change List

Added Filter for Phone Line (pg 19)
Added DC decoupling caps for Headphone amp (pg 20)
Added Split PME circuit
Added PROC_HOT voltage translator and connected output to SIO IN1 pin

Connected IR mux select to LGPIO74 of SIO. Disconnected the QUITE# signal from Dock

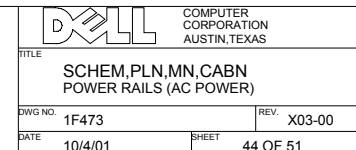
Changed Audio Amp from TPA0212 to TPA0312 (same package)
Changed TPA0312 Audio Amp Gain resistor positions (R137, R130)
Changed L35 and L38 to DPN 7H671 due to current capability. (Page 4)
Changed DPRSLP shorting pads to a 0 ohm resistor. (Page 6)
Connected R494 to 3VRUN instead of 3VALW. (Page 6)
NP'd R317. (Page 6)
Turn on of 2.5VSUS regulator changed. (Page 8)
Added circuitry to power sequencing to assure power and clocks are stable at CPU before ICH3 gets powerok. (Page 35)
Populated AC adapter detection circuitry. (Page 36)
Changed 1.25V regulator turn on to guarantee it comes after 2.5VSUS. (Page 39)
Changed R419 and R420 to .001 ohm. (Page 40)
Added C824 to VCCCORE (Page 40)
Changed connections for C89 and C77 on VCCCORE regulator. (Page 40)
Changed R522 to .011 ohm. (Page 41)
Changed to fix compal DFX issues: JUSB pg 18, JPS2 pg 35, JDCIN pg 36, JCD pg 17, JSVID pg 12, JHDD pg 17, JDock pg 29, JMOD pg 17, JBAT pg 37

X02 Change List

pg 35: changed ThERM_PWRDOWN pin on U73 from Q# to Q

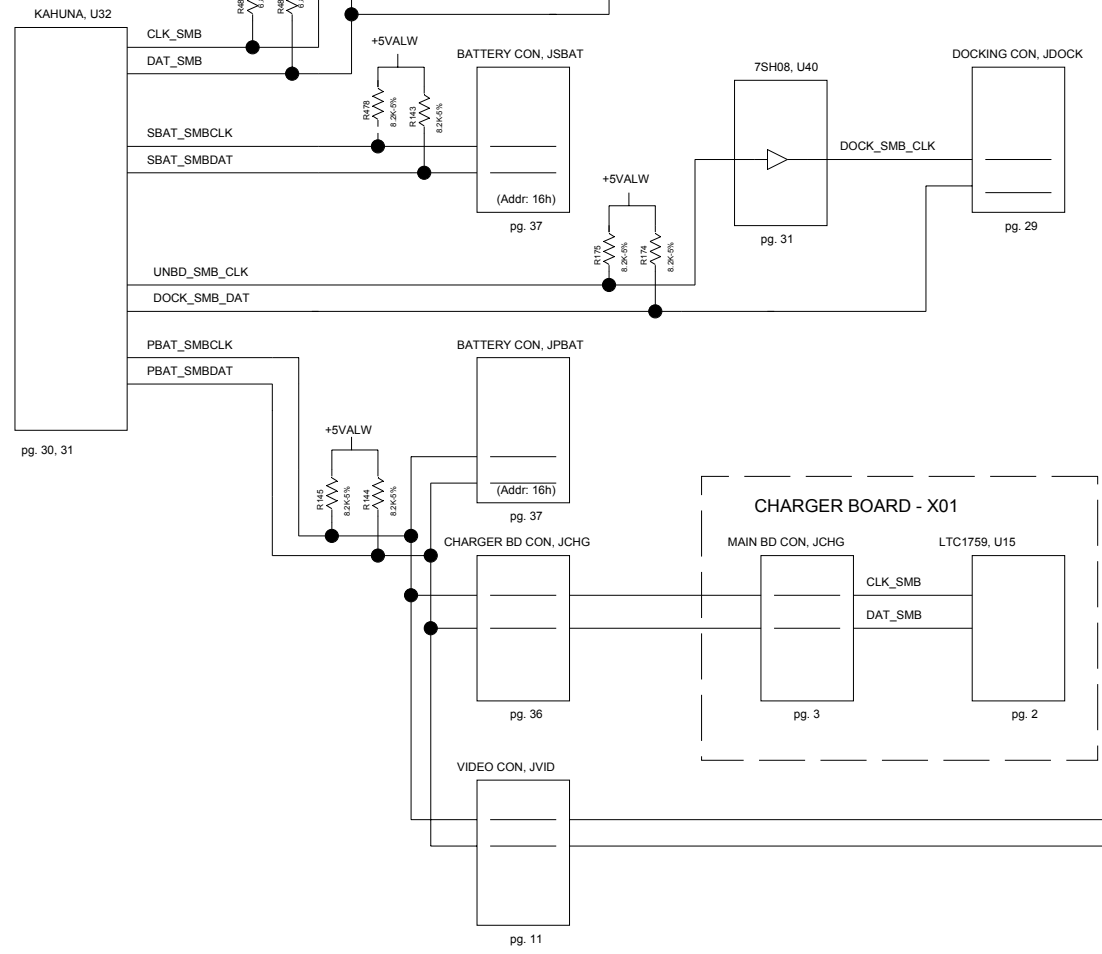
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		COMPUTER CORPORATION AUSTIN, TEXAS
TITLE SCHEM,PLN,MN,CABN REVISION HISTORY		
DWG NO.	1F473	REV. X03-00
DATE	10/4/01	SHEET 43 OF 51

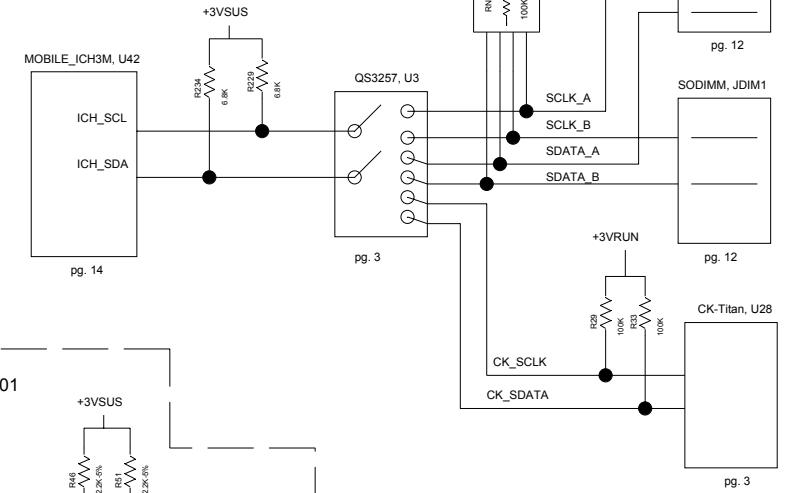


MAIN BOARD - X00

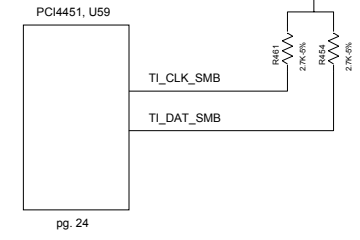
Kahuna SMBUS



ICH SMBUS



PCI4451 SMBUS



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		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE SCHEM,PLN,MN,CABN SMBUS BLOCK DIAGRAM			
DWG NO. 1F473		REV. X03-00	
DATE 10/4/01		SHEET 45 OF 51	

A	B	C	D
REFDES PAGE	REFDES PAGE	REFDES PAGE	REFDES PAGE
B_VID0.....6	C52.....40	C108.....40	C223.....4
B_VID1.....6	C53.....40	C109.....40	C224.....11
B_VID2.....6	C54.....40	C110.....4	C225.....3
B_VID3.....6	C55.....40	C111.....40	C227.....5
B_VID4.....6	C56.....40	C112.....40	C228.....10
C1.....34	C57.....40	C113.....40	C229.....24
C2.....34	C58.....40	C114.....4	C230.....20
C3.....34	C59.....40	C115.....19	C231.....4
C4.....34	C60.....40	C116.....39	C232.....4
C5.....34	C61.....34	C117.....21	C233.....10
C6.....34	C62.....29	C118.....21	C236.....11
C7.....34	C63.....36	C119.....10	C237.....10
C8.....34	C64.....40	C120.....33	C238.....3
C9.....34	C65.....29	C121.....10	C239.....3
C10.....12	C66.....18	C122.....33	C240.....3
C11.....12	C67.....18	C123.....19	C241.....3
C12.....12	C68.....18	C124.....33	C242.....10
C13.....12	C69.....18	C125.....21	C243.....9
C14.....12	C70.....36	C126.....10	C244.....7
C15.....35	C71.....34	C127.....10	C245.....9
C16.....35	C72.....29	C128.....38	C246.....9
C17.....35	C73.....36	C129.....10	C247.....24
C18.....35	C74.....36	C130.....33	C248.....26
C19.....34	C75.....40	C131.....19	C249.....26
C20.....34	C76.....29	C132.....21	C250.....10
C21.....34	C77.....40	C133.....10	C251.....3
C22.....34	C78.....18	C134.....19	C252.....10
C23.....34	C79.....39	C135.....20	C253.....9
C24.....34	C80.....39	C136.....17	C254.....10
C25.....34	C81.....40	C137.....19	C255.....10
C26.....34	C82.....39	C138.....21	C256.....11
C27.....34	C83.....18	C139.....10	C257.....4
C28.....34	C84.....36	C140.....19	C258.....3
C29.....34	C85.....18	C141.....38	C259.....26
C30.....34	C86.....34	C142.....17	C260.....26
C31.....34	C87.....34	C143.....19	C261.....24
C32.....34	C88.....40	C144.....21	C262.....26
C33.....40	C89.....40	C145.....35	C263.....10
C34.....18	C90.....34	C146.....19	C264.....9
C35.....18	C91.....38	C147.....8	C265.....24
C36.....34	C92.....40	C148.....8	C266.....3
C37.....12	C93.....34	C149.....20	C267.....11
C38.....12	C94.....39	C150.....20	C268.....7
C39.....12	C95.....40	C151.....20	C269.....9
C40.....12	C96.....30	C152.....10	C270.....9
C41.....12	C97.....35	C153.....10	C271.....9
C42.....12	C98.....40	C154.....21	C272.....8
C43.....35	C99.....29	C155.....10	C273.....9
C44.....35	C100.....40	C156.....17	C274.....9
C45.....29	C101.....40	C157.....19	C275.....3
C46.....40	C102.....40	C158.....19	C276.....3
C47.....18	C103.....40	C159.....10	C277.....26
C48.....18	C104.....40	C160.....19	C278.....10
C49.....40	C105.....40	C161.....10	C279.....10
C50.....40	C106.....40	C162.....19	C280.....9
C51.....40	C107.....21	C163.....21	C281.....8
			C282.....9
			C283.....26
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			C285.....31
			C286.....31
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			C291.....9
			C292.....10
			C293.....9
			C294.....9
			C295.....9
			C296.....9
			C297.....9
			C298.....31
			C299.....9
			C300.....26
			C301.....26
			C302.....26
			C303.....26
			C304.....8
			C305.....10
			C306.....9
			C307.....9
			C308.....9
			C309.....4
			C310.....24
			C311.....8
			C312.....10
			C313.....31
			C314.....9
			C315.....9
			C316.....9
			C317.....31
			C318.....9
			C319.....10
			C320.....9
			C321.....9
			C322.....31
			C323.....9
			C324.....9
			C325.....8
			C326.....9
			C327.....9
			C328.....9
			C329.....9
			C330.....9
			C331.....9
			C332.....11
			C333.....10
			C334.....9
			C335.....8
			C336.....39
			C337.....39

XREF PAGE 1 OF 6

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TITLE			
SCHEM.PLN,MN,CABN			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	46 OF 51

A	B	C	D
REFDES PAGE	REFDES PAGE	REFDES PAGE	REFDES PAGE
C338.....9	C394.....23	C450.....36	C506.....19
C339.....39	C395.....9	C451.....41	C507.....17
C340.....9	C396.....39	C452.....41	C508.....20
C341.....9	C397.....31	C453.....41	C509.....21
C342.....9	C398.....31	C454.....41	C510.....11
C343.....10	C399.....17	C455.....41	C511.....19
C344.....9	C400.....17	C456.....34	C512.....21
C345.....39	C401.....17	C457.....35	C513.....19
C346.....10	C402.....9	C458.....39	C514.....11
C347.....23	C403.....16	C459.....40	C515.....19
C348.....39	C404.....16	C460.....40	C516.....19
C349.....39	C405.....14	C461.....40	C517.....19
C350.....39	C406.....17	C462.....29	C518.....19
C351.....9	C407.....27	C463.....29	C519.....19
C352.....39	C408.....17	C464.....29	C520.....33
C353.....27	C409.....17	C465.....18	C521.....40
C354.....38	C410.....27	C466.....39	C522.....40
C355.....10	C411.....12	C467.....21	C523.....11
C356.....10	C412.....12	C468.....39	C524.....19
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C358.....10	C414.....17	C470.....28	C526.....11
C359.....10	C415.....32	C471.....6	C527.....19
C360.....9	C416.....14	C472.....40	C528.....19
C361.....39	C417.....14	C473.....39	C529.....20
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C363.....39	C419.....27	C475.....28	C531.....21
C364.....9	C420.....13	C476.....39	C532.....11
C365.....39	C421.....13	C477.....21	C533.....19
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C367.....9	C423.....27	C479.....19	C535.....20
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C379.....38	C435.....27	C491.....19	C547.....21
C380.....23	C436.....27	C492.....33	C548.....11
C381.....39	C437.....39	C493.....20	C549.....33
C382.....31	C438.....27	C494.....19	C550.....19
C383.....38	C439.....39	C495.....19	C551.....19
C384.....9	C440.....27	C496.....21	C552.....33
C385.....9	C441.....41	C497.....21	C553.....11
C386.....38	C442.....39	C498.....33	C554.....40
C387.....9	C443.....39	C499.....33	C555.....19
C388.....8	C444.....36	C500.....40	C556.....5
C389.....8	C445.....11	C501.....20	C557.....5
C390.....8	C446.....14	C502.....19	C558.....11
C391.....11	C447.....14	C503.....19	C559.....20
C392.....11	C448.....14	C504.....28	C560.....19
C393.....23	C449.....36	C505.....28	C561.....19

XREF PAGE 2 OF 6

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TITLE			
SCHEM,PLN,MN,CABN			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	47 OF 51

REFDES PAGE

C674.....11
C675.....11
C676.....26
C677.....26
C678.....11
C679.....38
C680.....38
C681.....26
C682.....11
C683.....11
C684.....9
C685.....11
C686.....26
C687.....26
C688.....35
C689.....11
C690.....11
C691.....11
C692.....35
C693.....16
C694.....16
C695.....9
C696.....11
C697.....41
C698.....11
C699.....32
C700.....41
C701.....41
C702.....22
C703.....16
C704.....32
C705.....32
C706.....32
C707.....32
C708.....41
C709.....11
C710.....16
C711.....41
C712.....41
C713.....16
C714.....32
C715.....41
C716.....41
C717.....16
C718.....12
C719.....32
C720.....16
C721.....32
C722.....13
C723.....32
C724.....32
C725.....32
C726.....32
C727.....11
C728.....11
C729.....16

REFDES PAGE

C730.....32
C731.....32
C732.....11
C733.....16
C734.....6
C735.....16
C736.....11
C737.....32
C738.....12
C739.....12
C740.....12
C741.....32
C742.....11
C743.....11
C744.....16
C745.....41
C746.....32
C747.....31
C748.....16
C749.....32
C750.....32
C751.....11
C752.....14
C753.....12
C754.....11
C755.....16
C756.....32
C757.....32
C758.....41
C759.....13
C760.....13
C761.....32
C762.....32
C763.....32
C764.....41
C765.....16
C766.....16
C767.....32
C768.....35
C769.....16
C770.....12
C771.....12
C772.....12
C773.....35
C774.....35
C775.....35
C776.....41
C777.....16
C778.....16
C779.....16
C780.....41
C781.....16
C782.....32
C783.....41
C784.....41
C785.....41

REFDES PAGE

C786.....16
C787.....16
C788.....41
C789.....16
C790.....16
C791.....16
C792.....16
C793.....32
C794.....16
C795.....39
C796.....39
C797.....39
C798.....39
C799.....16
C800.....41
C801.....41
C802.....27
C803.....16
C804.....16
C805.....16
C806.....16
C807.....16
C808.....16
C809.....36
C810.....41
C811.....41
C812.....41
C813.....16
C814.....16
C815.....39
C816.....39
C817.....39
C818.....38
C819.....37
C820.....37
C821.....36
C822.....36
C823.....30
C824.....40
C825.....19
C826.....20
C827.....20
C828.....36
C829.....36
C831.....36
C832.....36
C833.....39
C834.....33
C835.....33
C836.....33
C837.....19
C838.....33
CLP1.....42
CLP2.....42
CLP3.....42
CLP4.....42

REFDES PAGE

CLP5.....42
CLP6.....42
CLP7.....42
CLP8.....42
CLP9.....42
CLP10.....42
CLP12.....42
CLP13.....42
CLP14.....42
CLP15.....42
CLP17.....42
CLP18.....42
CLP19.....42
CLP20.....42
CLP21.....42
CLP22.....42
CLP23.....42
CLP24.....42
CLP25.....42
CLP26.....42
CLP27.....42
CLP28.....42
CLP29.....42
CLP30.....42
CLP31.....42
CLP32.....42
CLP33.....42
CLP34.....42
CLP35.....42
CLP36.....42
CLP37.....42
CLP38.....42
CMOS_CLR..14
D1.....12
D2.....12
D3.....12
D4.....12
D5.....40
D6.....40
D7.....40
D8.....8
D9.....8
D10.....8
D11.....24
D12.....39
D13.....41
D14.....30
D15.....36
D16.....36
D17.....41
D18.....41
D19.....34
D20.....40
D21.....40
D22.....28
D23.....28

REFDES PAGE

D24.....33
D25.....33
D26.....39
D27.....39
D28.....41
D29.....16
D30.....16
D31.....41
D32.....41
D33.....41
D34.....41
D35.....41
D36.....16
D37.....16
D38.....36
D39.....37
D40.....37
D41.....37
D42.....37
D43.....37
D44.....37
D45.....36
D46.....41
FS2.....36
FS3.....35
J1394.....26
JAUD_OUT..20
JCBUS.....25
JCD.....17
JCHG.....36
JCPU.....5
JCPU.....4
JCPU.....4
JCPU.....5
JDCIN.....36
JDEBUG....30
JDIM0.....10
JDIM1.....10
JDOCK.....29
JFAN1.....33
JFAN2.....33
JHDD.....17
JKYBRD....32
JLED.....35
JLINE_IN..20
JLOM.....22
JLPT.....34
JMDC.....22
JMIC.....20
JMOD.....17
JPALM.....32
JPBAT.....37
JPCI.....27
JPS2.....35
JSBAT.....37
JSIO.....34

REFDES PAGE

JSVID.....12
JUSB.....18
JVGA.....12
JVID.....11
L1.....12
L2.....35
L3.....35
L4.....35
L5.....35
L6.....12
L7.....12
L8.....12
L9.....12
L10.....34
L11.....34
L12.....34
L13.....34
L14.....34
L15.....34
L16.....34
L17.....34
L18.....34
L19.....34
L20.....34
L21.....18
L22.....18
L23.....18
L24.....18
L25.....18
L26.....18
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L28.....35
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L33.....21
L34.....3
L35.....4
L36.....3
L37.....26
L38.....4
L39.....26
L40.....31
L41.....9
L42.....27
L43.....32
L44.....39
L45.....36
L46.....40
L47.....40
L48.....20
L49.....21
L50.....20
L51.....8
L52.....20

XREF PAGE 3 OF 6

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SCHEM.PLN,MN,CABN			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	48 OF 51

A	B	C	D
REFDES PAGE	REFDES PAGE	REFDES PAGE	REFDES PAGE
L53.....20	Q17.....35	Q73.....33	R104.....38
L54.....25	Q18.....38	Q74.....33	R105.....35
L55.....25	Q19.....33	Q75.....33	R106.....21
L56.....20	Q20.....8	Q76.....33	R107.....8
L57.....20	Q21.....8	Q77.....13	R108.....8
L58.....26	Q22.....3	Q78.....8	R109.....4
L59.....39	Q23.....3	Q79.....39	R110.....33
L60.....9	Q24.....4	Q80.....21	R111.....4
L61.....41	Q25.....3	Q81.....11	R112.....3
L62.....12	Q26.....3	R1.....12	R113.....3
L63.....12	Q27.....38	R2.....12	R114.....3
L64.....32	Q28.....38	R3.....12	R115.....3
L65.....12	Q29.....38	R4.....12	R116.....3
L66.....12	Q30.....38	R5.....12	R117.....3
L67.....12	Q31.....23	R6.....12	R118.....3
L68.....32	Q32.....38	R7.....35	R119.....3
L69.....39	Q33.....38	R8.....35	R120.....22
L70.....41	Q34.....38	R9.....35	R121.....21
MHA1.....42	Q35.....36	R10.....35	R122.....21
MHA2.....42	Q36.....39	R11.....34	R123.....24
MHA3.....42	Q37.....39	R12.....34	R124.....3
MHA4.....42	Q38.....38	R13.....34	R125.....24
MHA5.....42	Q39.....40	R14.....12	R126.....3
MHA6.....42	Q40.....40	R15.....12	R127.....3
MHA7.....42	Q41.....40	R16.....40	R128.....3
MHA8.....42	Q42.....40	R17.....34	R129.....20
MHA9.....42	Q43.....40	R18.....34	R130.....20
MHA10.....42	Q44.....40	R19.....34	R131.....8
MHA11.....42	Q45.....40	R20.....34	R132.....4
MHB1.....42	Q46.....40	R21.....34	R133.....4
MHB2.....42	Q47.....33	R22.....40	R134.....4
MHB3.....42	Q48.....40	R23.....40	R135.....24
MHB4.....42	Q49.....40	R24.....40	R136.....4
P1.....6	Q50.....38	R25.....34	R137.....20
PAD1.....42	Q51.....38	R26.....40	R138.....20
PAD2.....42	Q52.....39	R27.....40	R139.....4
PAD3.....42	Q53.....38	R28.....34	R140.....24
PAD4.....42	Q54.....27	R29.....34	R141.....24
PAD5.....42	Q55.....39	R30.....34	R142.....4
PAD6.....42	Q56.....38	R31.....34	R143.....24
Q1.....40	Q57.....27	R32.....34	R144.....20
Q2.....40	Q58.....41	R33.....29	R145.....3
Q3.....40	Q59.....41	R34.....29	R146.....3
Q4.....40	Q60.....41	R35.....40	R147.....3
Q5.....38	Q61.....39	R36.....40	R148.....3
Q6.....35	Q62.....39	R37.....34	R149.....3
Q7.....29	Q63.....41	R38.....34	R150.....3
Q8.....29	Q64.....39	R39.....34	R151.....7
Q9.....29	Q65.....38	R40.....34	R152.....3
Q10.....36	Q66.....36	R41.....34	R153.....3
Q11.....38	Q67.....36	R42.....34	R154.....7
Q12.....35	Q68.....38	R43.....34	R155.....24
Q13.....22	Q69.....41	R44.....34	R156.....3
Q14.....33	Q70.....41	R45.....34	R157.....3
Q15.....33	Q71.....41	R46.....40	R158.....3
Q16.....38	Q72.....41	R47.....18	R159.....3

XREF PAGE 4 OF 6

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		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE			
SCHEM.PLN,MN,CABN			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	49 OF 51

A	B	C	D
REFDES PAGE	REFDES PAGE	REFDES PAGE	REFDES PAGE
R216.....23	R272.....8	R328.....27	R384.....20
R217.....31	R273.....23	R329.....13	R385.....28
R218.....31	R274.....13	R330.....39	R386.....19
R219.....39	R275.....17	R331.....36	R387.....19
R220.....23	R276.....17	R332.....14	R388.....33
R221.....30	R277.....17	R333.....14	R389.....33
R222.....39	R278.....14	R334.....14	R390.....6
R223.....30	R279.....17	R335.....15	R391.....19
R224.....31	R280.....27	R336.....14	R392.....6
R225.....31	R281.....27	R337.....39	R393.....20
R226.....13	R282.....27	R338.....14	R394.....19
R227.....38	R283.....14	R339.....14	R395.....19
R228.....10	R284.....15	R340.....36	R396.....19
R229.....39	R285.....14	R341.....38	R397.....19
R230.....38	R286.....17	R342.....41	R398.....19
R231.....30	R287.....27	R343.....37	R399.....19
R232.....9	R288.....12	R344.....30	R400.....19
R233.....39	R289.....31	R345.....36	R401.....17
R234.....30	R290.....14	R346.....36	R402.....19
R235.....27	R291.....14	R347.....36	R403.....33
R236.....30	R292.....14	R348.....36	R404.....28
R237.....30	R293.....14	R349.....36	R405.....28
R238.....11	R294.....13	R350.....41	R406.....28
R239.....10	R295.....15	R351.....34	R407.....19
R240.....8	R296.....6	R352.....34	R408.....19
R241.....30	R297.....13	R353.....34	R409.....33
R242.....38	R298.....17	R354.....34	R410.....20
R243.....11	R299.....6	R355.....35	R411.....21
R244.....8	R300.....13	R356.....18	R412.....13
R245.....8	R301.....6	R357.....40	R413.....19
R246.....38	R302.....6	R358.....40	R414.....33
R247.....38	R303.....13	R359.....40	R415.....33
R248.....11	R304.....13	R360.....39	R416.....19
R249.....11	R305.....17	R361.....39	R417.....19
R250.....11	R306.....6	R362.....40	R418.....33
R251.....23	R307.....6	R363.....40	R419.....40
R252.....11	R308.....6	R364.....40	R420.....40
R253.....23	R309.....6	R365.....6	R421.....28
R254.....11	R310.....17	R366.....39	R422.....21
R255.....11	R311.....41	R367.....36	R423.....21
R256.....23	R312.....41	R368.....6	R424.....30
R257.....11	R313.....41	R369.....19	R425.....33
R258.....8	R314.....41	R370.....19	R426.....19
R259.....8	R315.....41	R371.....19	R427.....19
R260.....23	R316.....6	R372.....6	R428.....20
R261.....17	R317.....6	R373.....33	R429.....19
R262.....38	R318.....6	R374.....40	R430.....20
R263.....11	R319.....27	R375.....21	R431.....4
R264.....31	R320.....41	R376.....21	R432.....4
R265.....31	R321.....41	R377.....6	R433.....4
R266.....36	R322.....6	R378.....19	R434.....4
R267.....36	R323.....6	R379.....19	R435.....21
R268.....36	R324.....6	R380.....6	R436.....4
R269.....4	R325.....13	R381.....21	R437.....19
R270.....17	R326.....13	R382.....28	R438.....21
R271.....8	R327.....32	R383.....21	R439.....21
			R440.....20
			R441.....20
			R442.....24
			R443.....4
			R444.....20
			R445.....20
			R446.....22
			R447.....22
			R448.....22
			R449.....22
			R450.....21
			R451.....20
			R452.....22
			R453.....20
			R454.....20
			R455.....3
			R456.....22
			R457.....20
			R458.....20
			R459.....24
			R460.....20
			R461.....20
			R462.....20
			R463.....24
			R464.....26
			R465.....26
			R466.....26
			R467.....26
			R468.....26
			R469.....26
			R470.....24
			R471.....22
			R472.....22
			R473.....24
			R474.....26
			R475.....22
			R476.....24
			R477.....26
			R478.....24
			R479.....17
			R480.....26
			R481.....26
			R482.....26
			R483.....26
			R484.....24
			R485.....26
			R486.....6
			R487.....30
			R488.....24
			R489.....6
			R490.....24
			R491.....24
			R492.....6
			R493.....38
			R494.....6
			R495.....38
			R496.....4
			R497.....4
			R498.....4
			R499.....38
			R500.....38
			R501.....4
			R502.....35
			R503.....38
			R504.....27
			R505.....11
			R506.....9
			R507.....8
			R508.....8
			R509.....11
			R510.....11
			R511.....11
			R512.....11
			R513.....11
			R514.....11
			R515.....11
			R516.....11
			R517.....7
			R518.....7
			R519.....11
			R520.....11
			R521.....11
			R522.....41
			R523.....35
			R524.....14
			R525.....14
			R526.....22
			R527.....16
			R528.....11
			R529.....11
			R530.....13
			R531.....11
			R533.....16
			R534.....15
			R535.....14
			R536.....11
			R537.....15
			R538.....15
			R539.....15
			R540.....35
			R541.....11
			R542.....13
			R543.....11
			R544.....12
			R545.....12
			R546.....12
			R547.....35
			R548.....32
			R549.....32
			R550.....35
			R551.....13
			R552.....35

XREF PAGE 5 OF 6

PROPRIETARY NOTE: THIS ITEM IS THE PROPERTY OF DELL COMPUTER CORP. AUSTIN, TEXAS AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS ITEM MAY NOT BE TRANSFERRED FROM THE CUSTODY OF DELL COMPUTER CORP. EXCEPT AS AUTHORIZED BY DELL COMPUTER CORP., AND THEN ONLY BY WAY OF LOAN FOR LIMITED PURPOSES. IT MUST NOT BE REPRODUCED IN WHOLE OR IN PART AND MUST BE RETURNED TO DELL COMPUTER CORP. UPON REQUEST AND IN ALL EVENTS UPON COMPLETION OF THE PURPOSE OF THE LOAN. NEITHER THIS ITEM OR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO PERSONS NOT HAVING A NEED FOR SUCH USE OR DISCLOSURE CONSISTENT WITH THE PURPOSE OF THE LOAN WITHOUT THE PRIOR WRITTEN CONSENT OF DELL COMPUTER CORPORATION.

		COMPUTER CORPORATION AUSTIN, TEXAS	
TITLE			
SCHEM,PLN,MN,CABN			
DWG NO.	1F473	REV.	X03-00
DATE	10/4/01	SHEET	50 OF 51

REFDES PAGE

U55.....24
U55.....24
U56.....17
U57.....25
U58.....26
U59.....6
U60.....9
U60.....9
U60.....7
U60.....8
U60.....7
U61.....35
U61.....33
U62.....35
U63.....6
U64.....41
U65.....35
U66.....39
U67.....39
U68.....11
U69.....36
U70.....35
U71.....42
U71.....41
U72.....41
U73.....33
U74.....8
U75.....30
U76.....30
U77.....39
U78.....42
U78.....35
U79.....22
U80.....33
U81.....33
U82.....33
U83.....22
VCCSENSE...4
VSSSENSE...4
WP1.....42
WP2.....42
WP3.....42
WP4.....42
X2.....30
X3.....14
X4.....26
X5.....3
X6.....21
X7.....19