INTEL® PENTIUM® III & INTEL® CELERON (R) PROCESSOR/ 810E2 CHIPSET UNIVERSAL SOCKET 370 PLATFORM

UNIPROCESSOR CUSTOMER REFERENCE SCHEMATICS

REVISION 1.0

Title	Page
Cover Sheet	1
Block Diagram	2
370-pin socket	3 , 4
AGTL Termination	5
Clock Synthesi zer	6
82810e	7, 8, 9
Display Cache	10
System Memory	11, 12
ICH2	13, 14
FWH & UDAM 100 IDE1-2	15
Super I/O	16
PCI Connectors	17, 18
USB Connectors	19
AC97 CODEC	20
Audio I/O	21
WOL, WOR & 2S1P	22
Kybrd / Mse / F. Disk / Gme Connectors	23
Digital Video Out	24
Video Connectors	25
Front Panel & CNR	26
ATX Power & H/W Monitor	27, 28
Voltage Regulators	29. 30
System Configuration	31
Pullup Resistors	32
UMB Circuits	33, 34
Unused Gates & Decoupling capacitors	35, 36

** Please note these schematics are subject to change.

THESE SCHEMATICS ARE PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF PROPOSAL, SPECIFICATION OR SAMPLES.

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving or life sustaining applications.

Intel may make changes to specifications and product descriptions at any time, without notice.

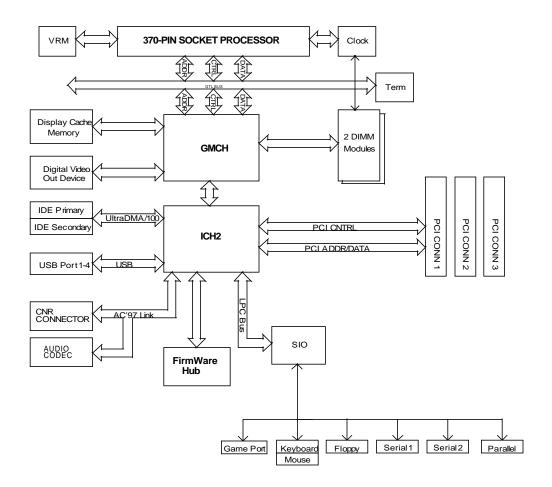
The Intel® Celeron(R) processor and Intel® 810e2 chipset may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Copyright (c) Intel Corporation 2001.

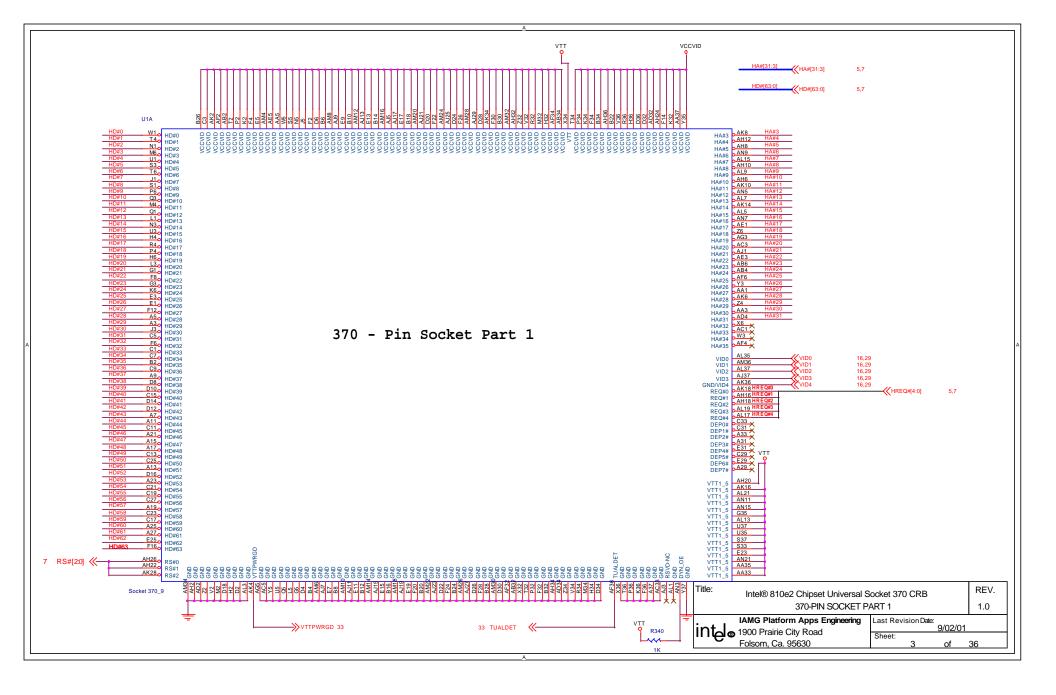
* Third-party brands and names are the property of their respective owners.

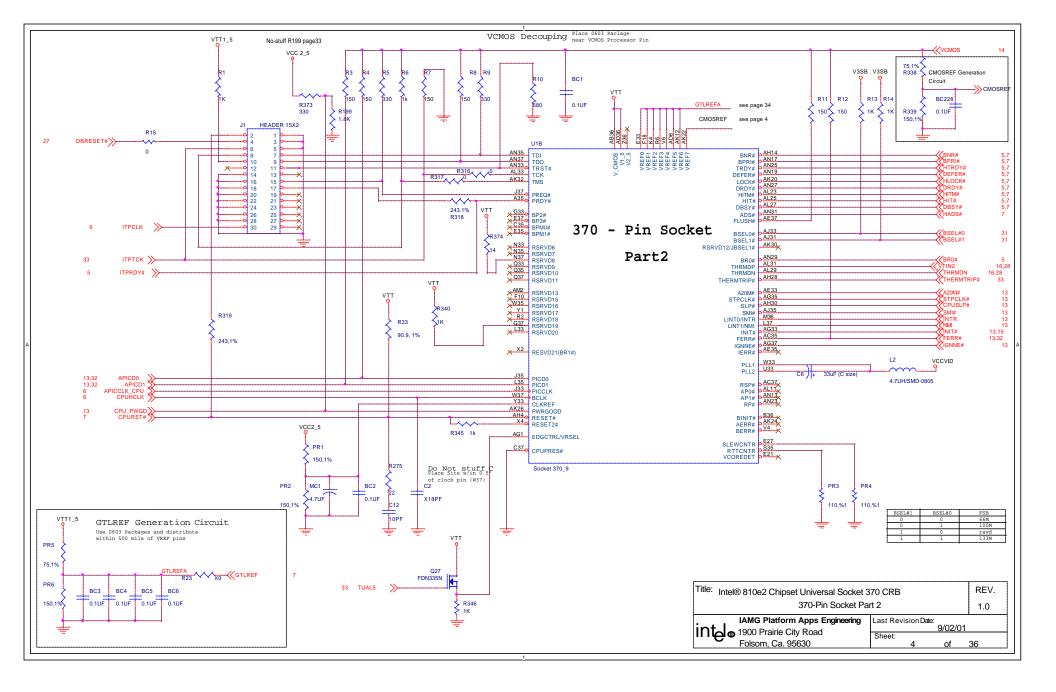
Title: Intel® 810e2 Chipset Universal Socket370CRB		REV.
Cover Sheet		
	Last Revision Date 9/02/01	
intel • 1900 Prairie City Road Folsom, Ca. 95630	Sheet: 1 of 3	6

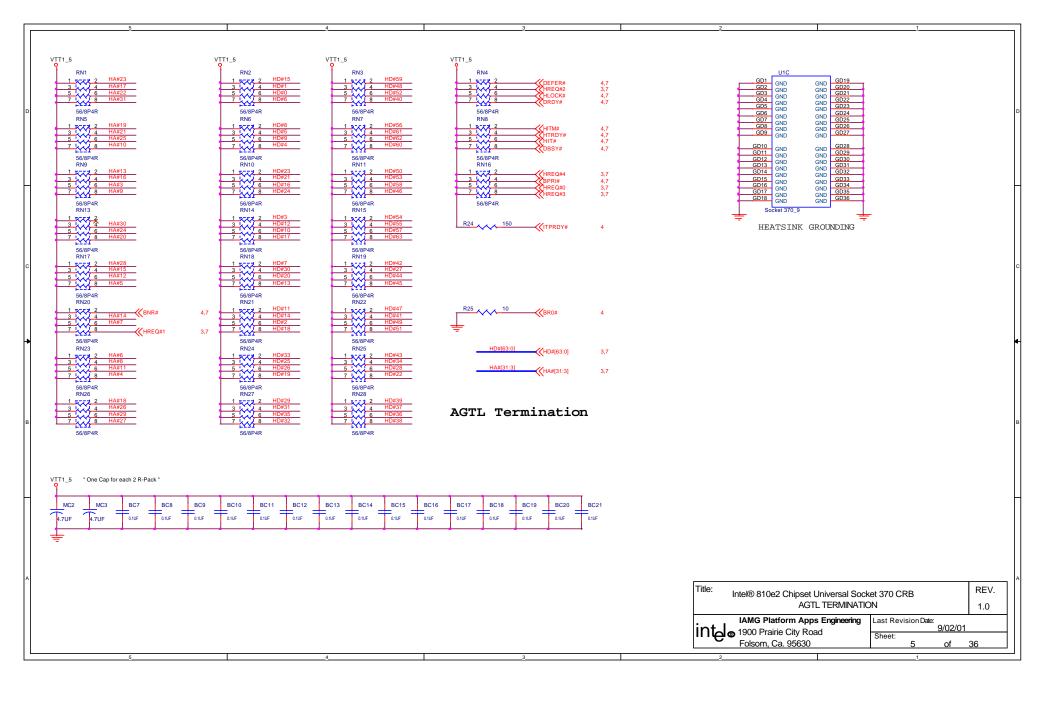
Block Diagram

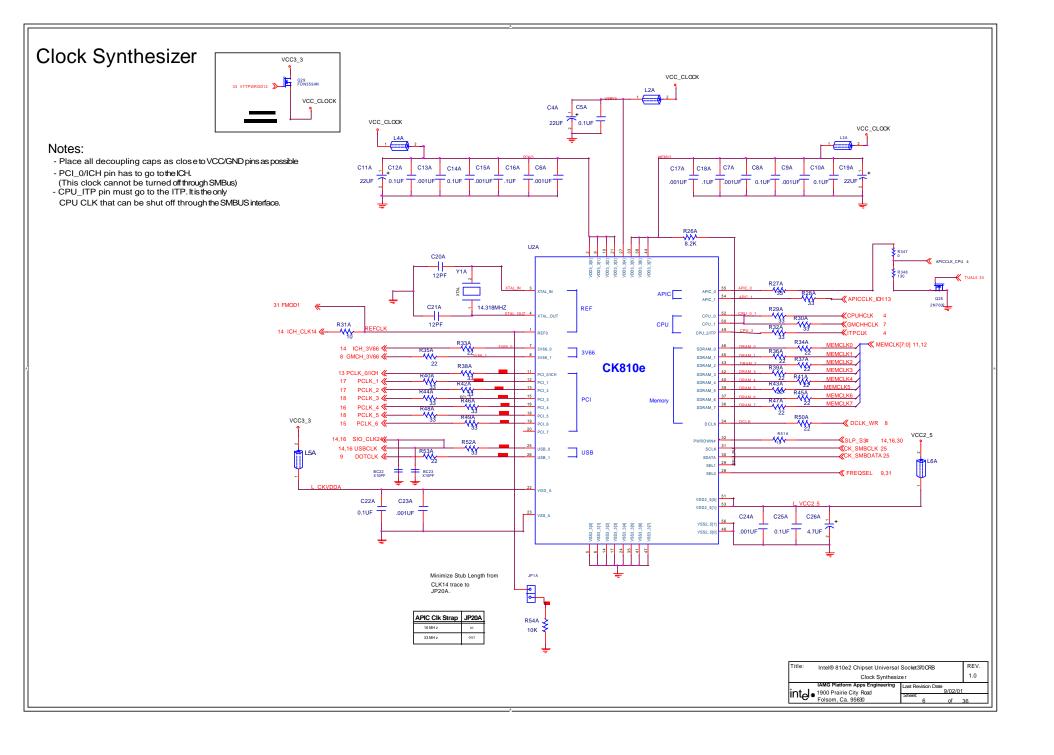


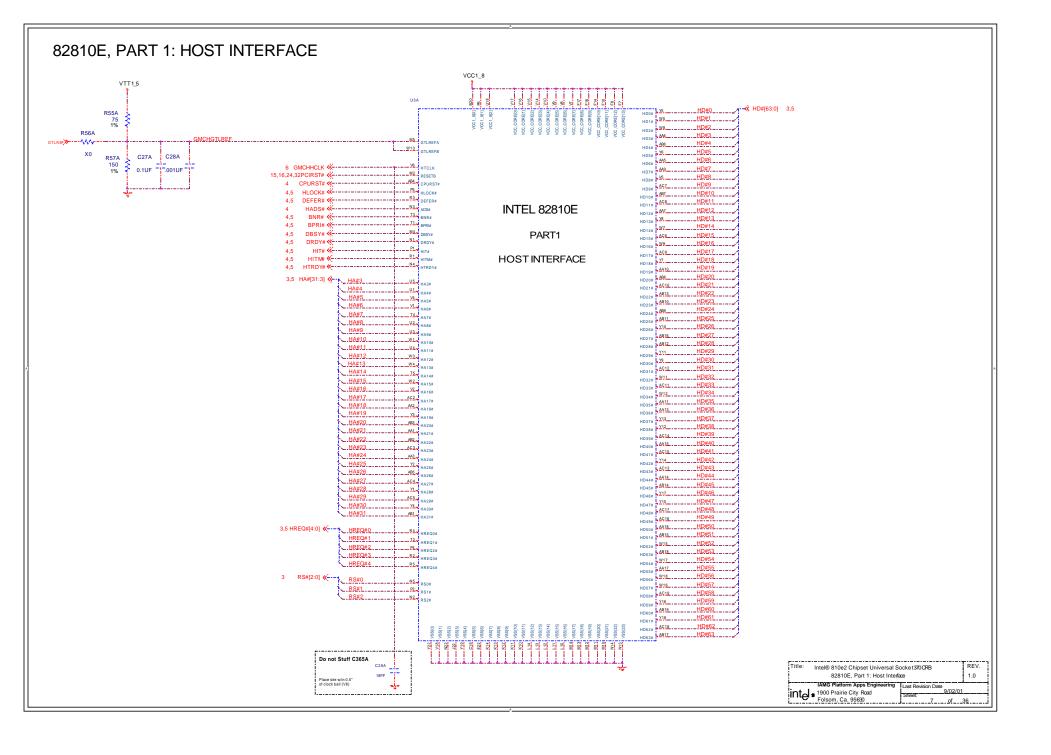
Title: Intel® 810e2 Chipset Universal Socket370CRB		REV.	
Block Diagram		1.0	
int		Last Revision Date 9/02/01	
ше	1900 Prairie City Road Folsom, Ca. 95630	Sheet: 2 of	36

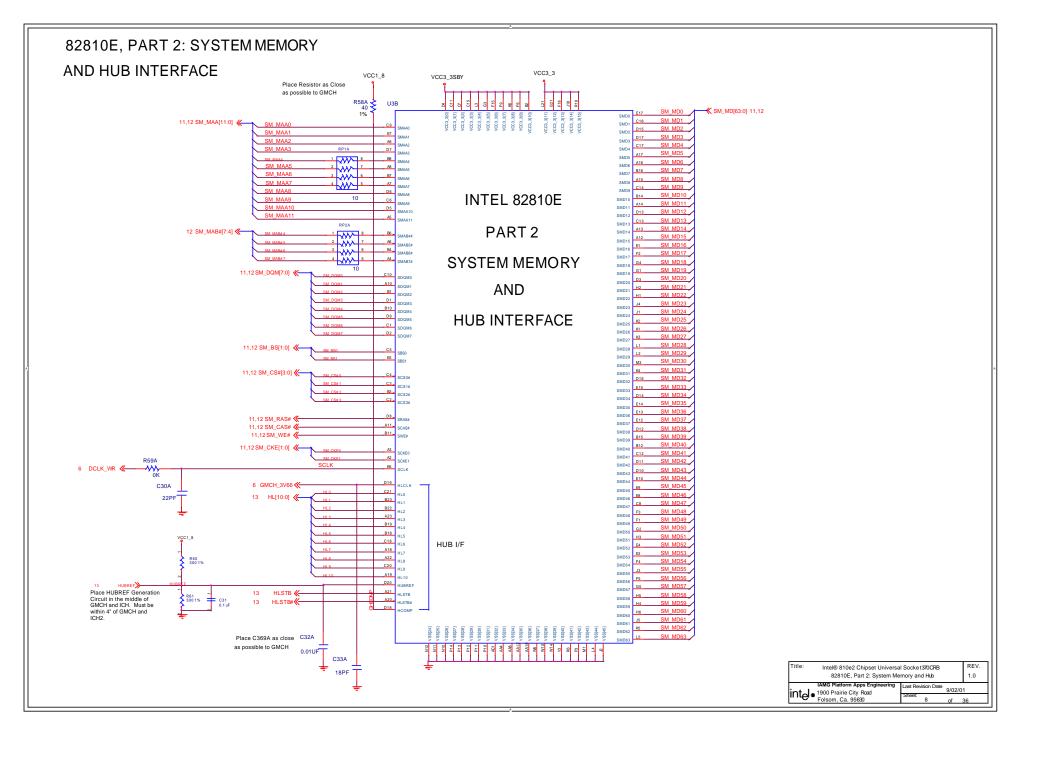


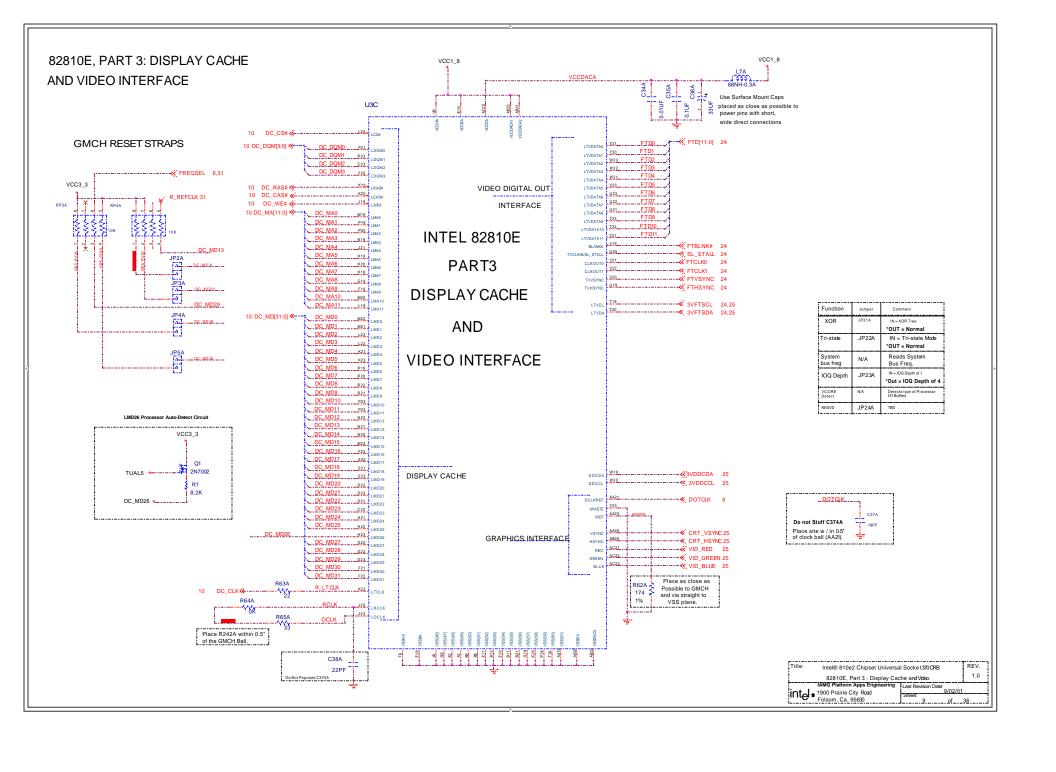




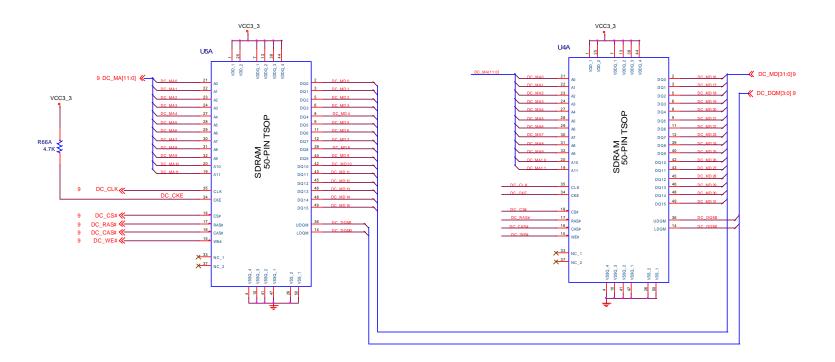






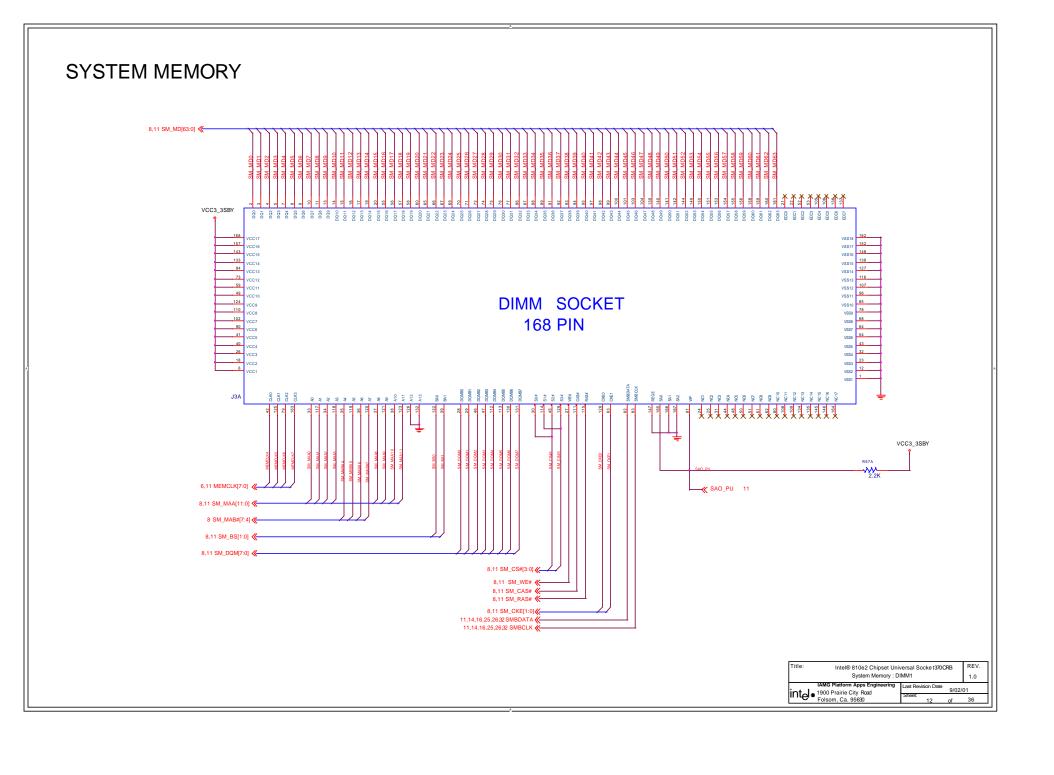


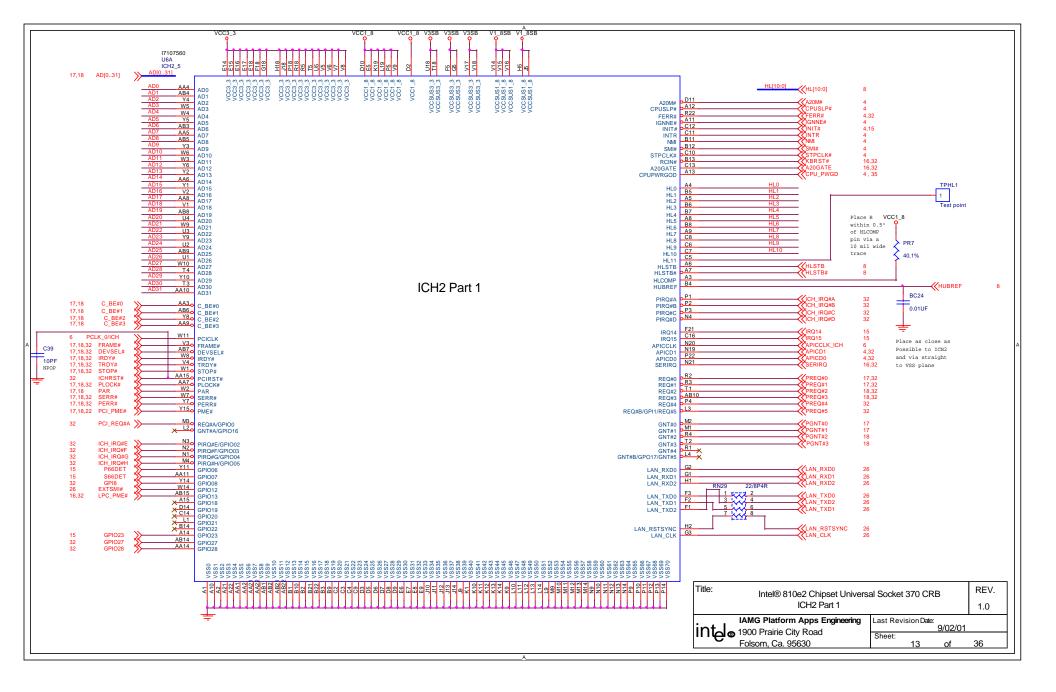
4MB Display Cache

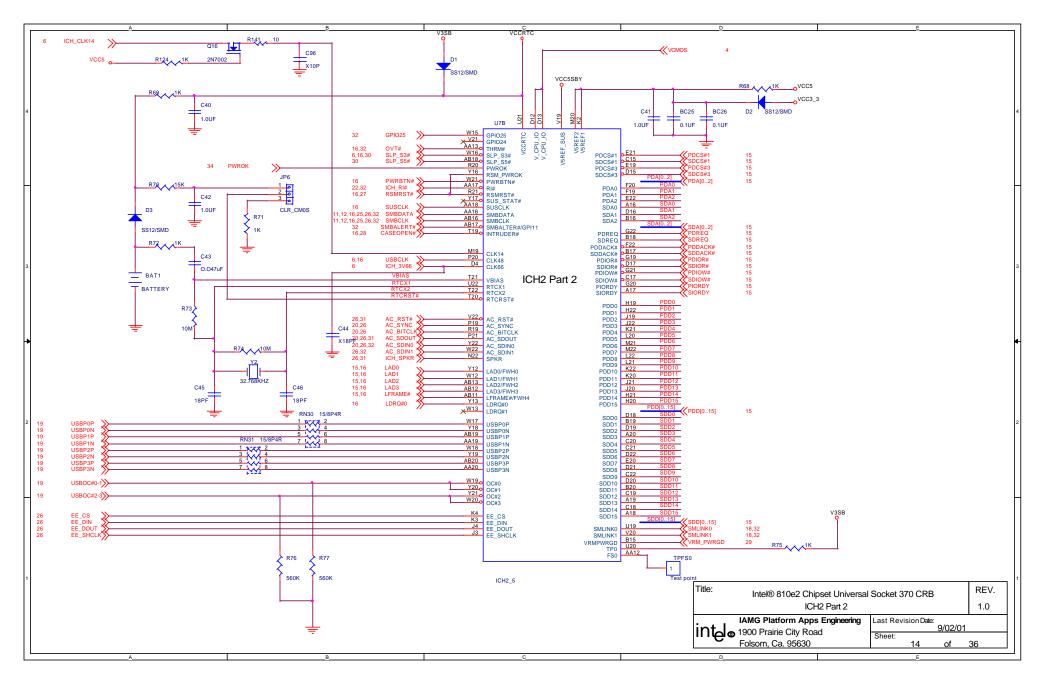


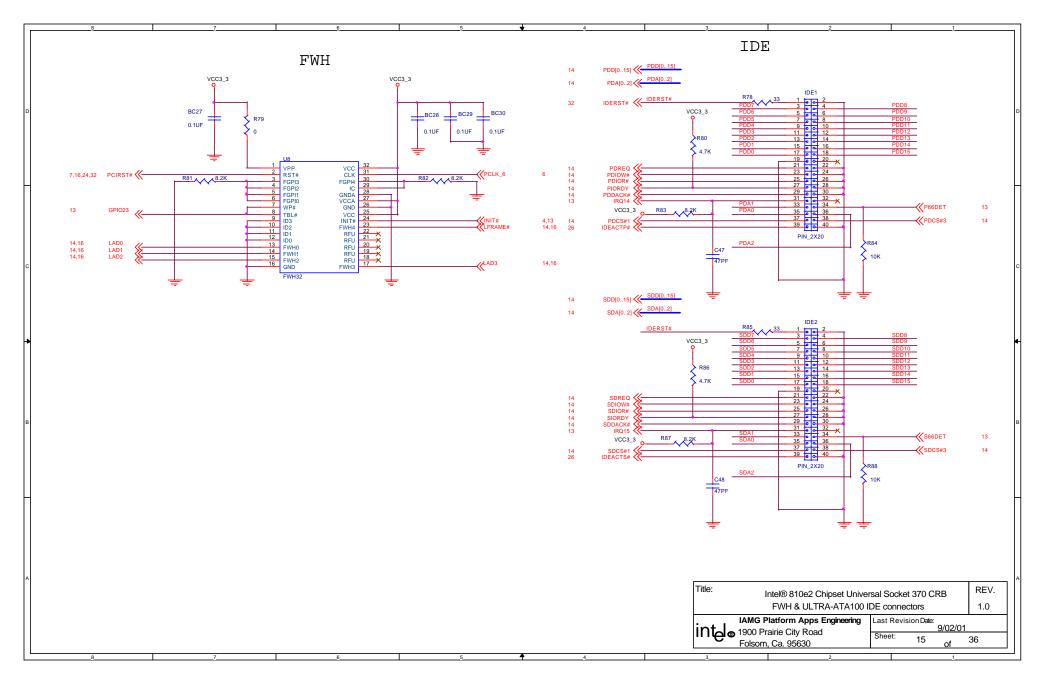
Title:	1-4-1@ 040-0 Chi4 U-i	-1 C1 4070 CDD		REV.
11110.	tle: Intel® 810e2 Chipset Universal Socket370CRB Display Cache			1.0
int I	IAMG Platform Apps Engineering	Last Revision Date	9/02/0)1
ıı ırGı	1900 Prairie City Road Folsom, Ca. 95630	Sheet: 10	of	36

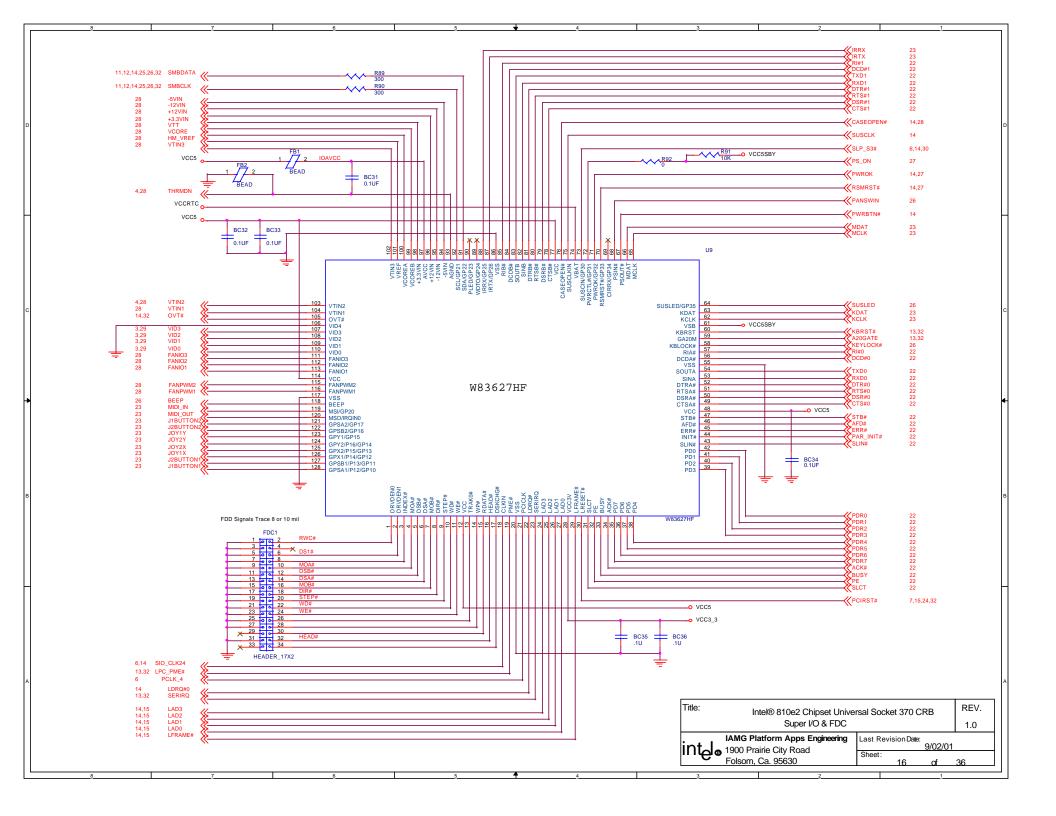
SYSTEM MEMORY 8,12 SM_MD[63:0] **《** VCC3_3SBY DIMM SOCKET **168 PIN →>**SAO_PU 12 6,12 MEMCLK[7:0] 8,12 SM_MAA[11:0] **《** 8,12 SM_BS[1:0] 《 8,12 SM_DQM[7:0] **《** 8,12 SM_CS#[3:0] (8,12 SM_WE# « 8,12 SM_CAS# « 8,12 SM_RAS# **《** 8,12 SM_CKE[1:0] << 12,14,16,25,26,32 SMBDATA 12,14,16,25,26,32 SMBCLK << Intel® 810e2 Chipset Universal Socket370CRB System Memory : DIMM0 intel • 1900 Prairie City Road Folsom, Ca. 95630

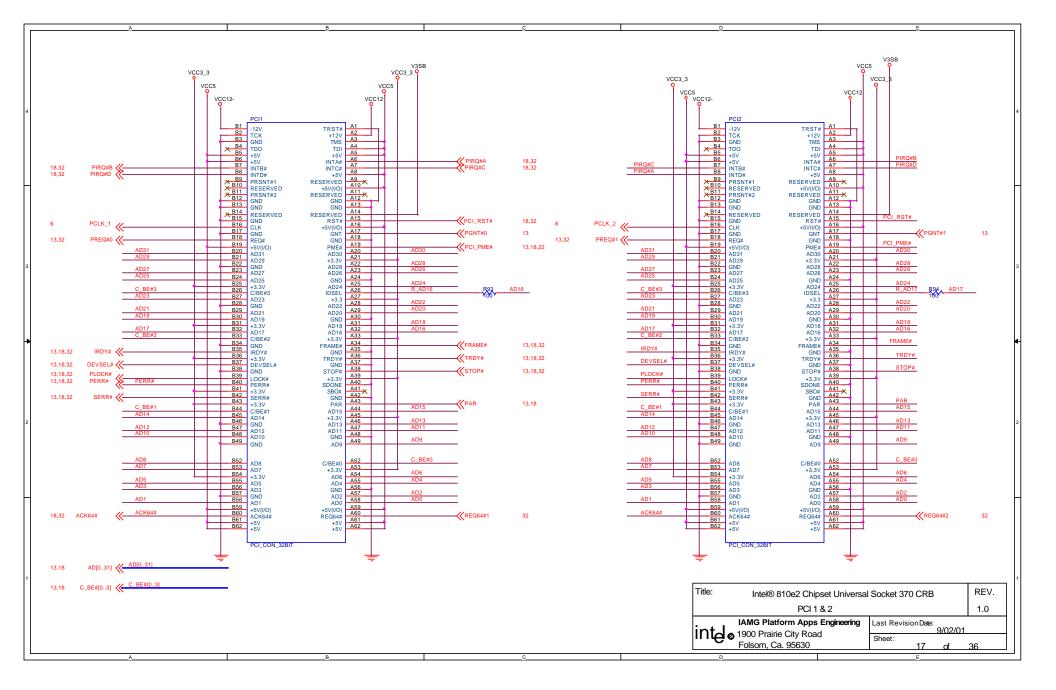


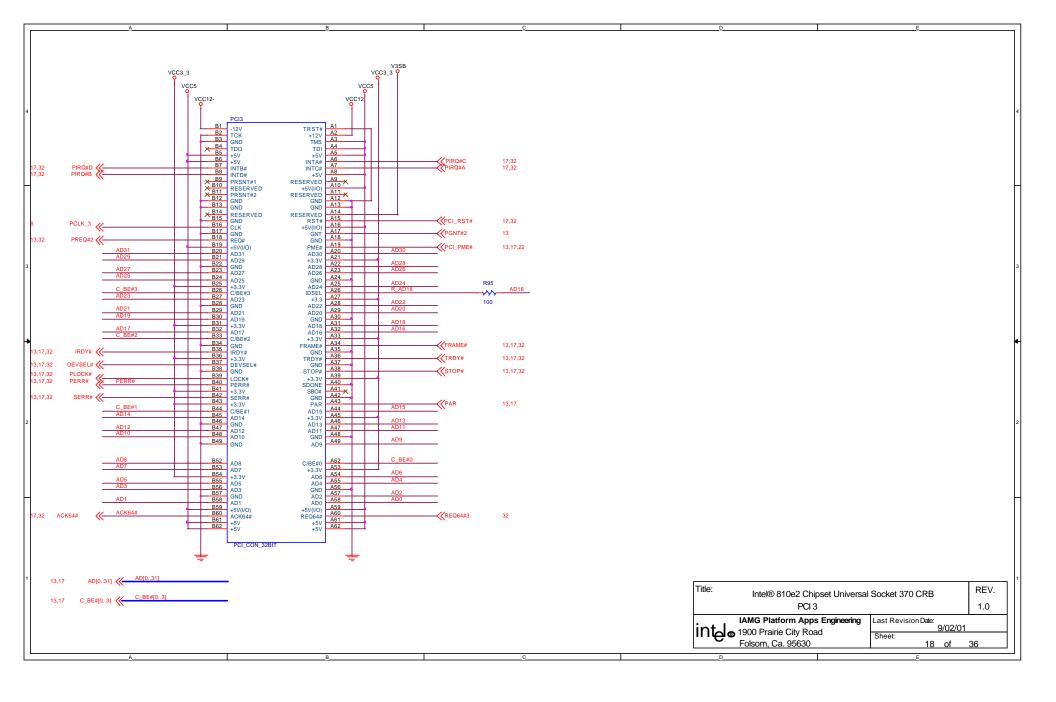


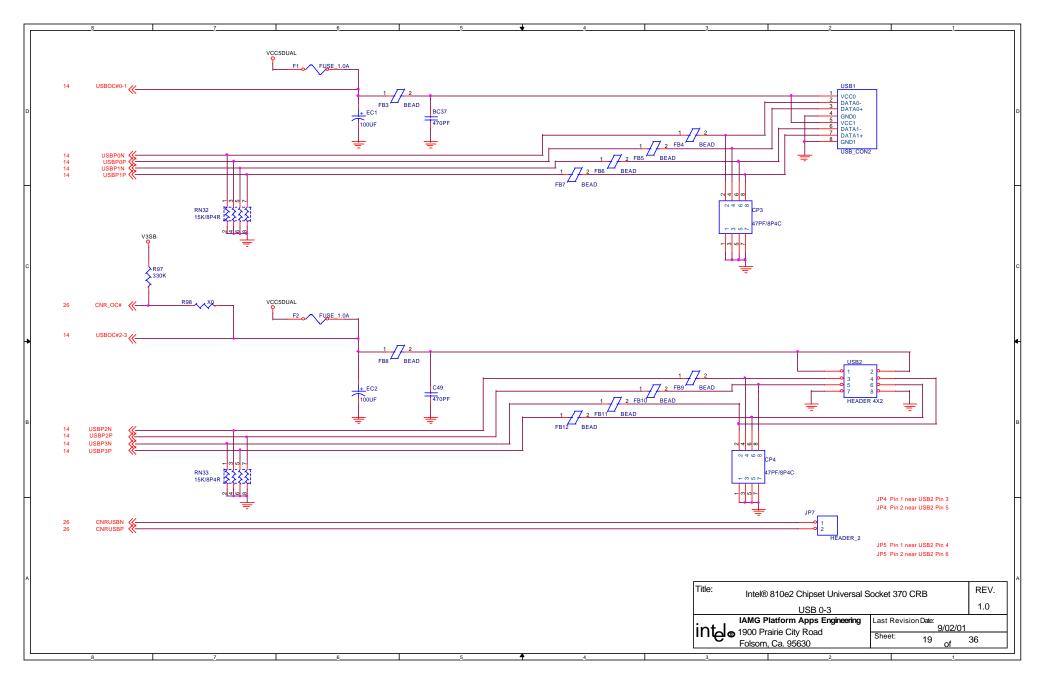


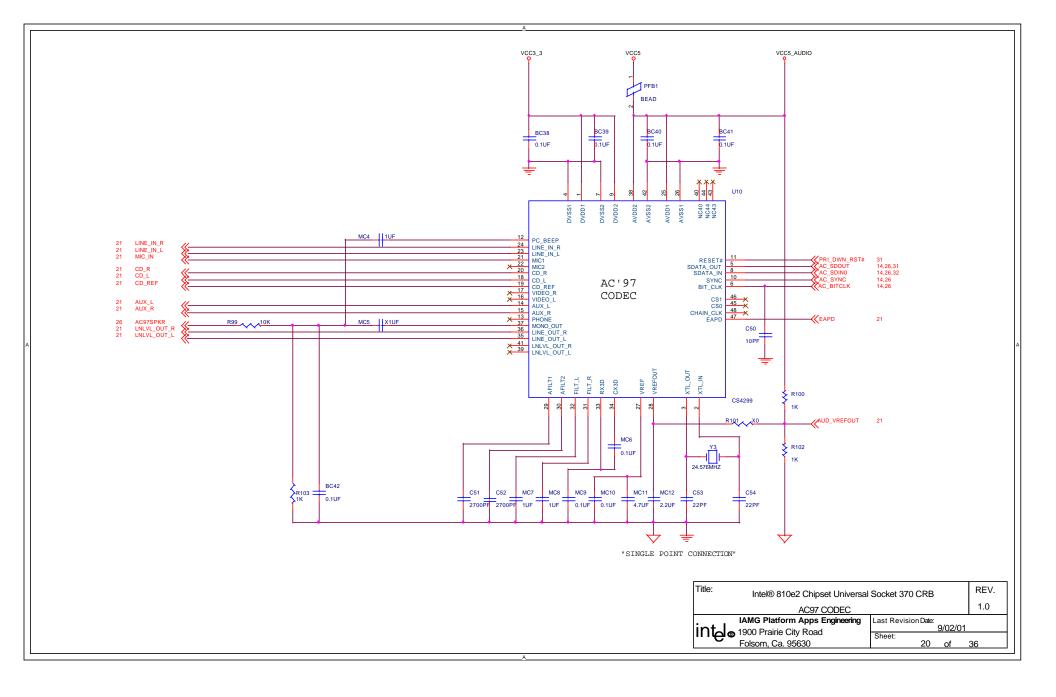


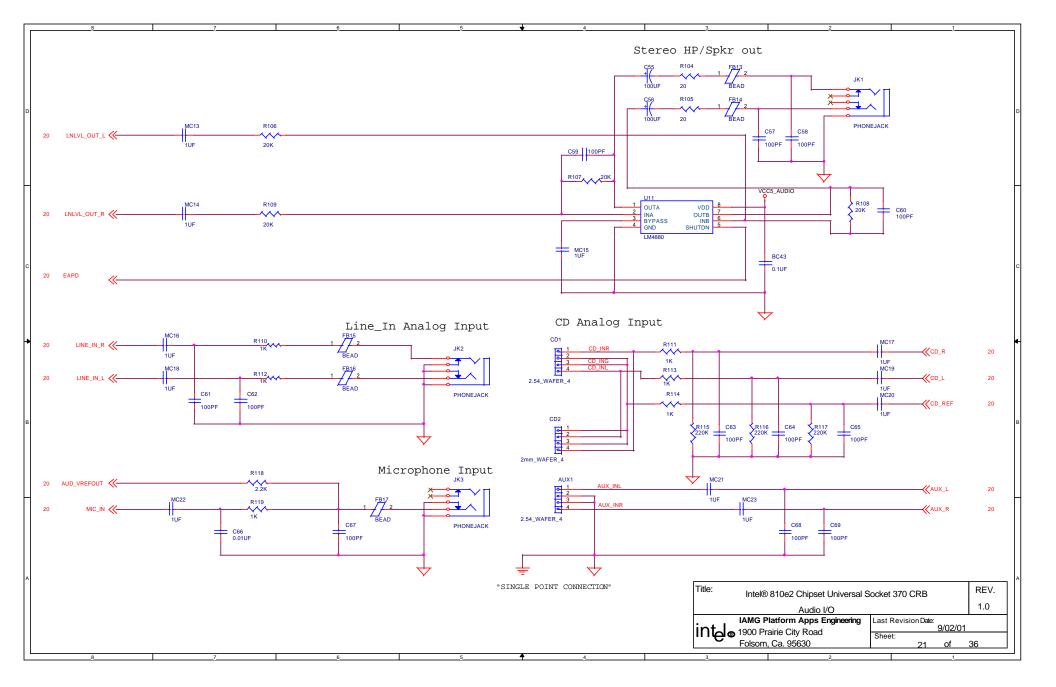


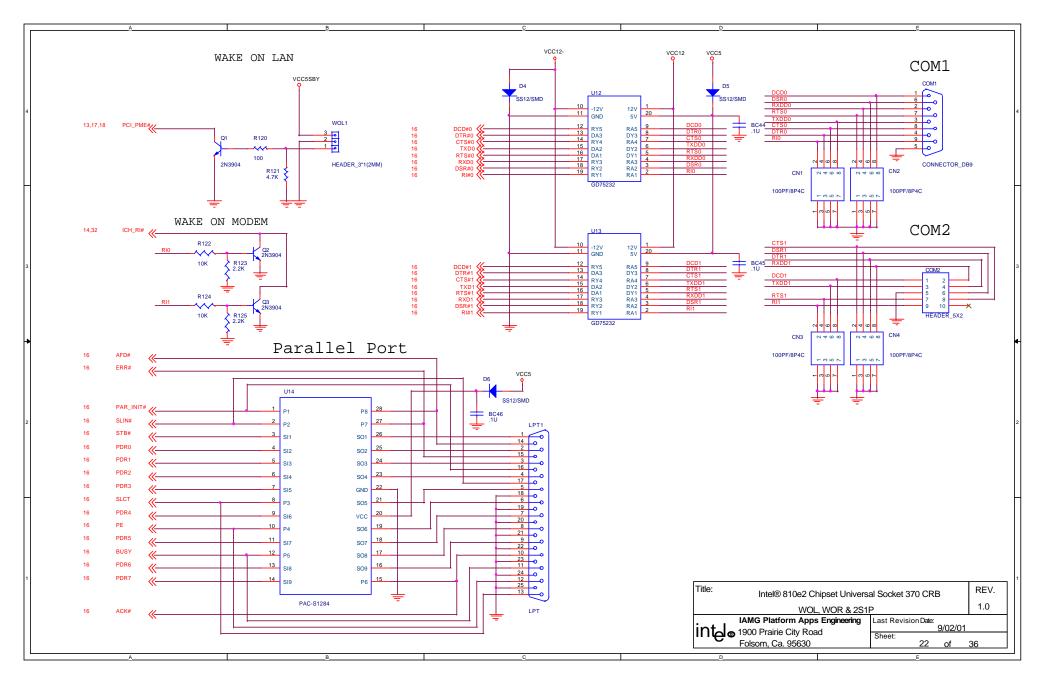


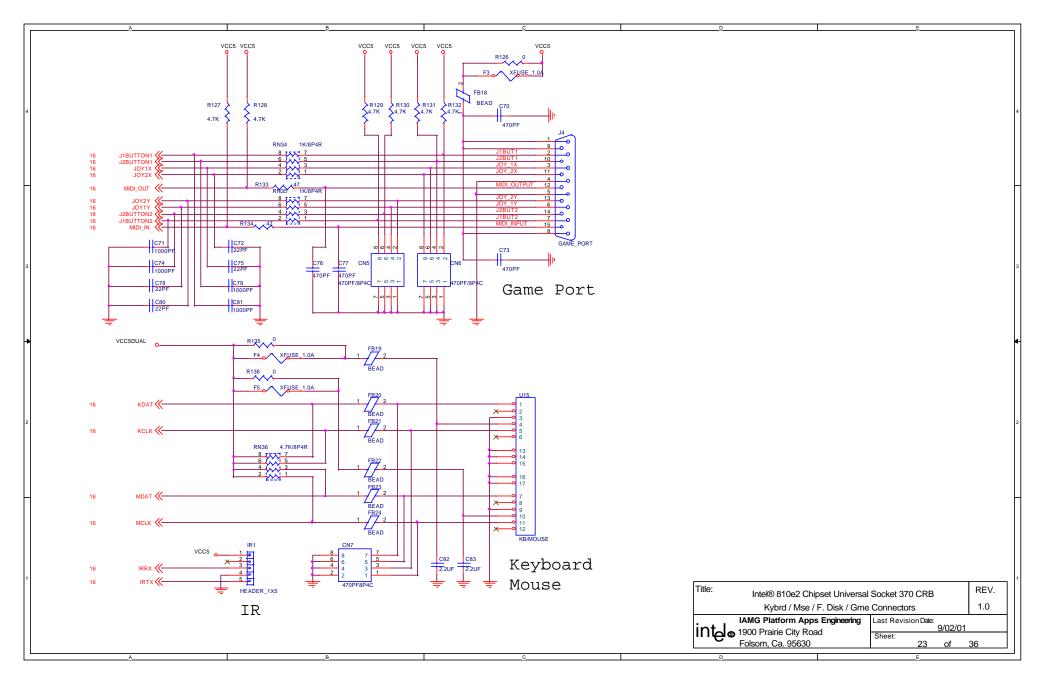




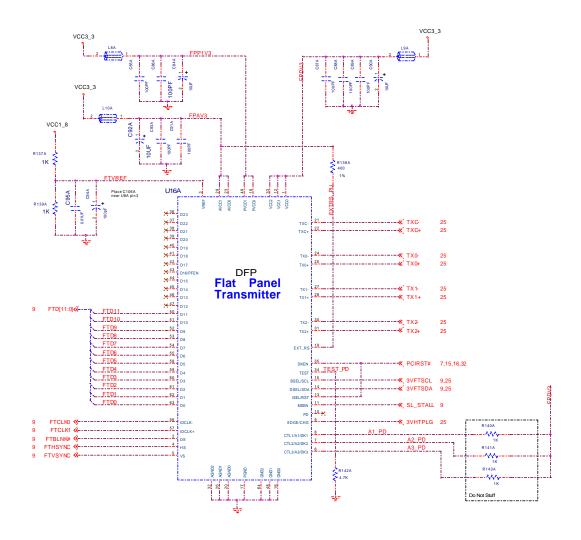








Digital Video Out



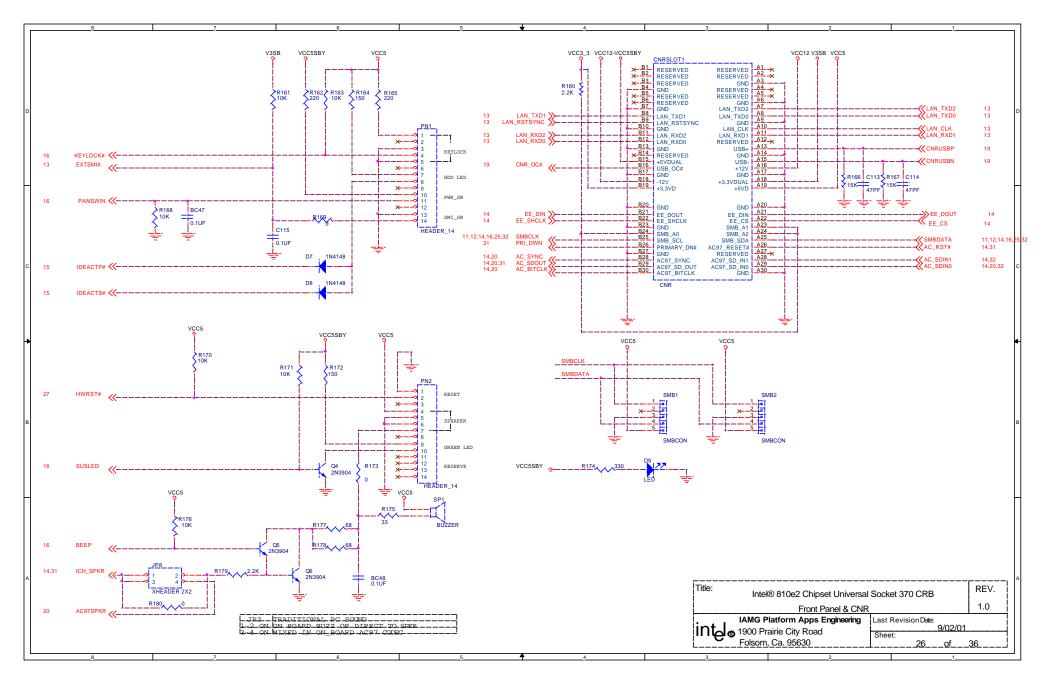
Title:	Intel® 810e2 Chipset Universal Socket370CRB Digital Video Out		REV.
			1.0
int I		Last Revision Date 9/02/0	1
iii irei •	1900 Prairie City Road Folsom, Ca. 95630	Sheet: 24 of	36

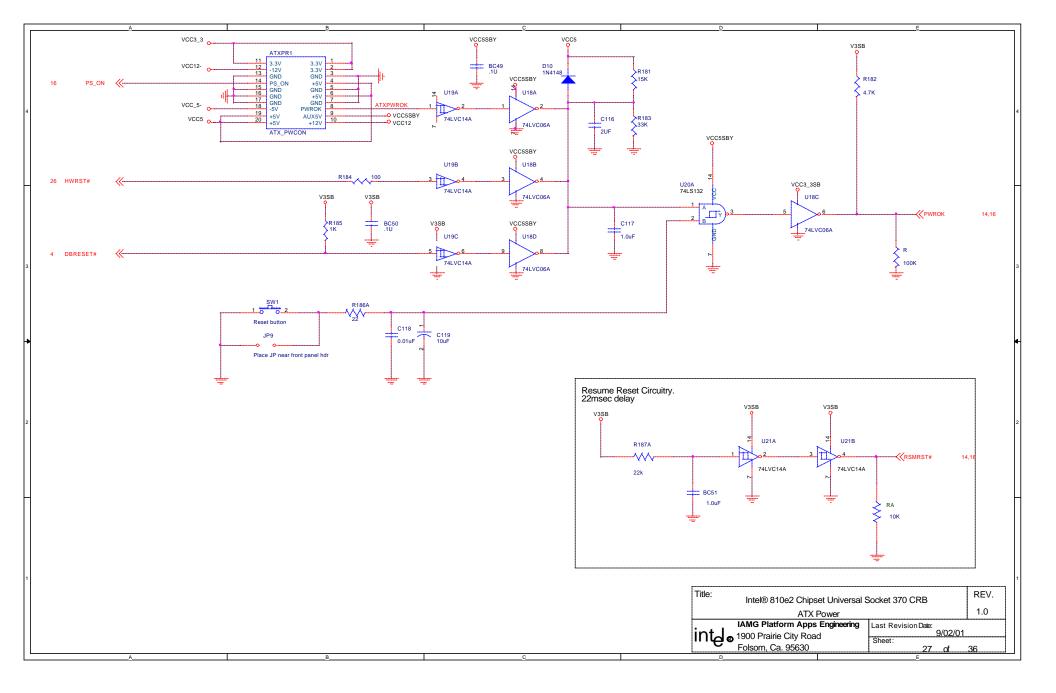
Video Connectors 20 Pin Flat Panel Connector VGA Connector F6A R145A 9 VID RED <---Place R66A,R67A,& R69A Close to VGA Connector .1. 0 0 11 ≪ TX2+ TX1+ «-----TX1- «-----24 TXC 🤲 R147A R149A 75 1% R152A 5V to 3.3V Translation / Isolation Do Not Stuff C114A and C115A R154A U17A L14A 9 CRT VSYNC «-24 3VHTPLG «--9,24 3VFTSDA **(**-R155A 75 1% 9,24 3VFTSCL «----6 CK_SMBDATA < .----6 CK_SMBCLK «----

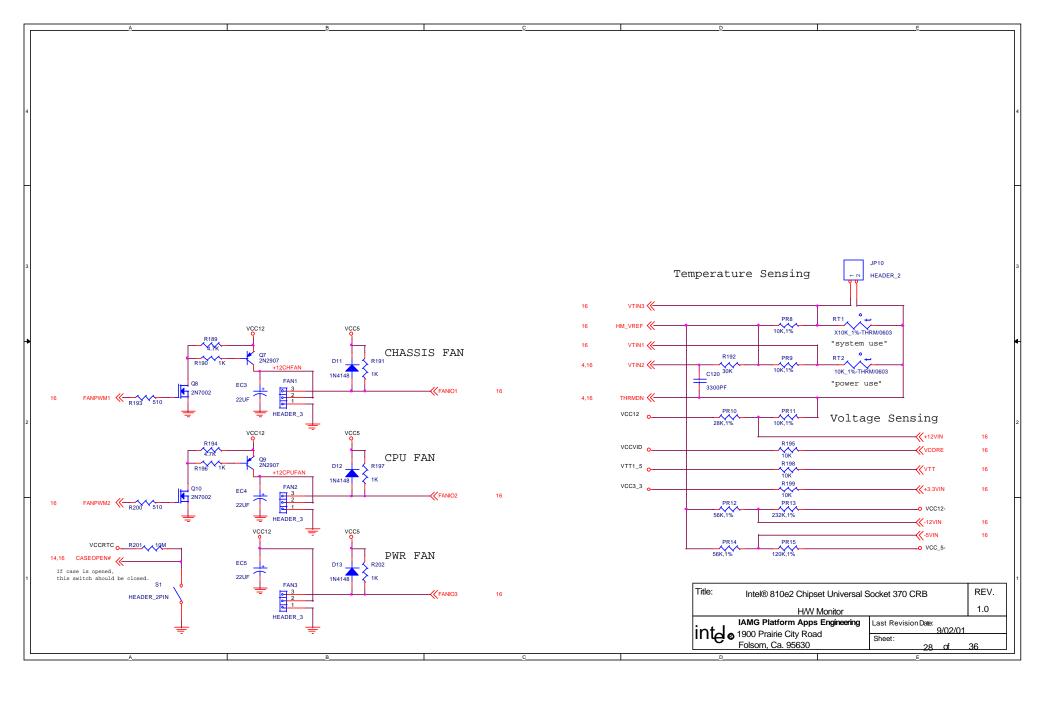
Intel® 810e2 Chipset Universal Socket370CRB Video Connectors

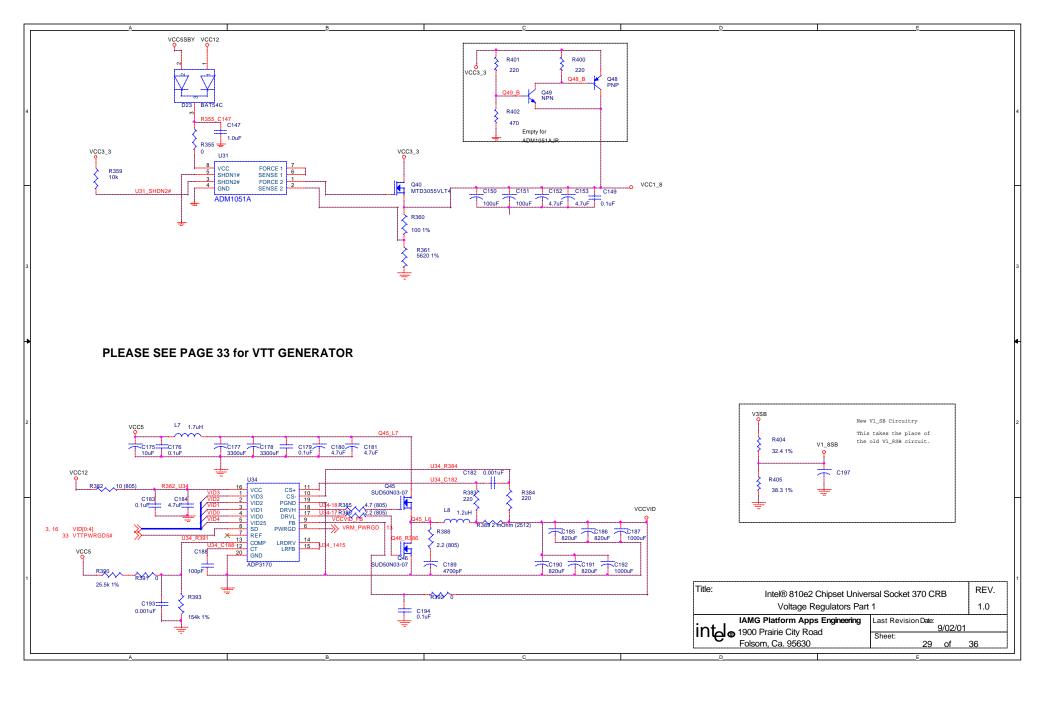
intel 1900 Prairie City Road Folsom, Ca. 95630

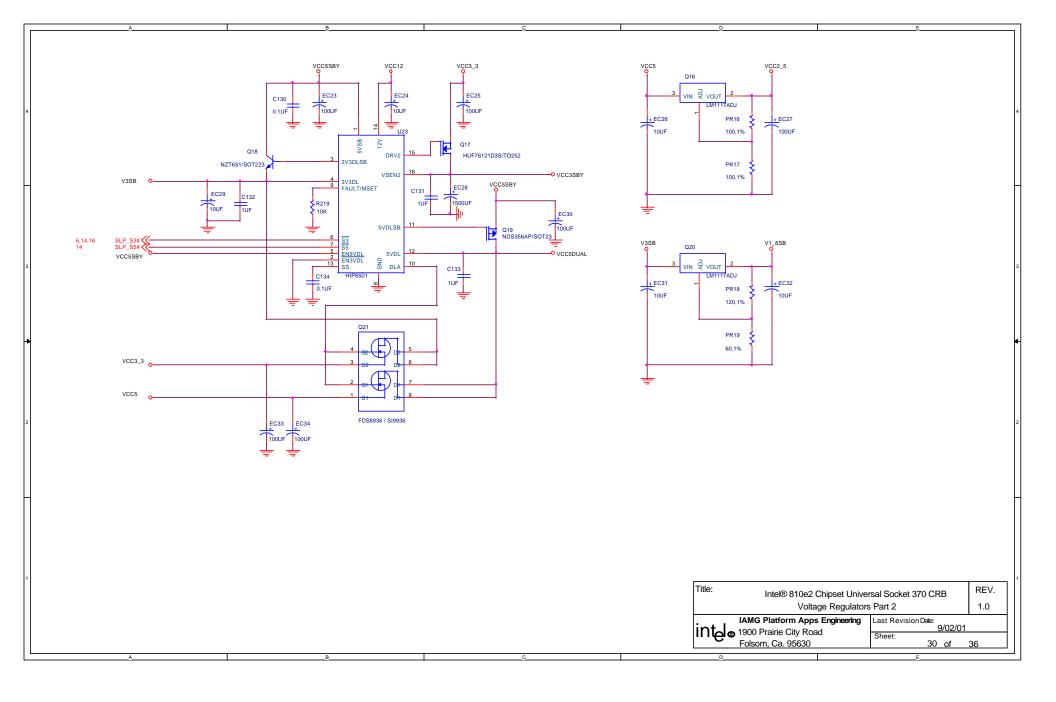
Do Not Populate

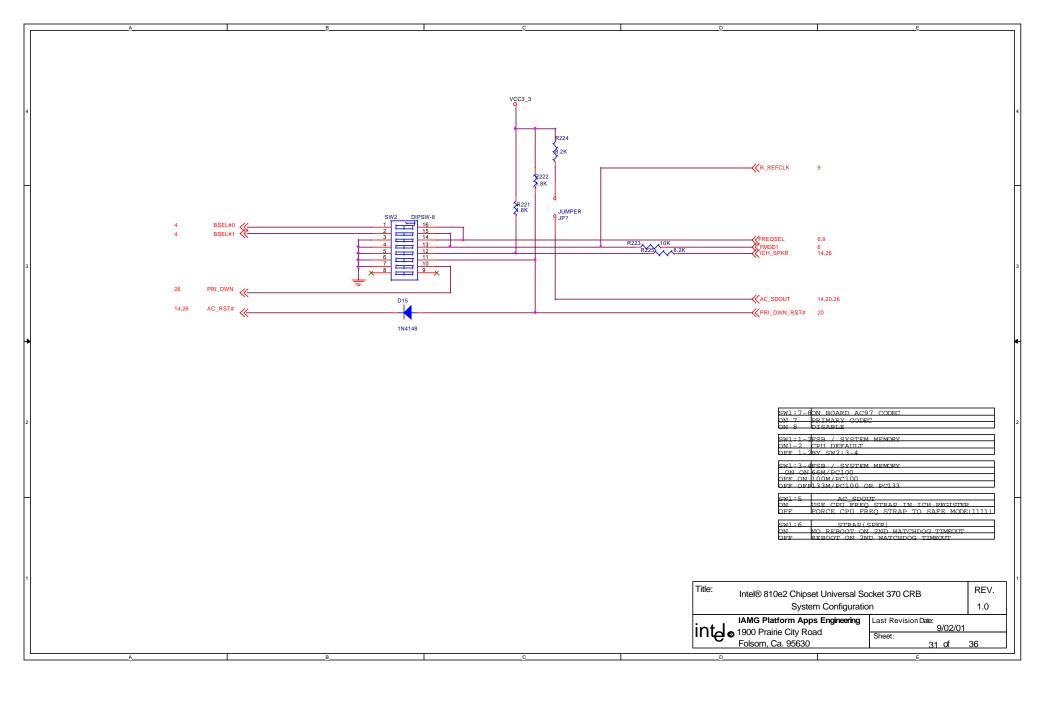


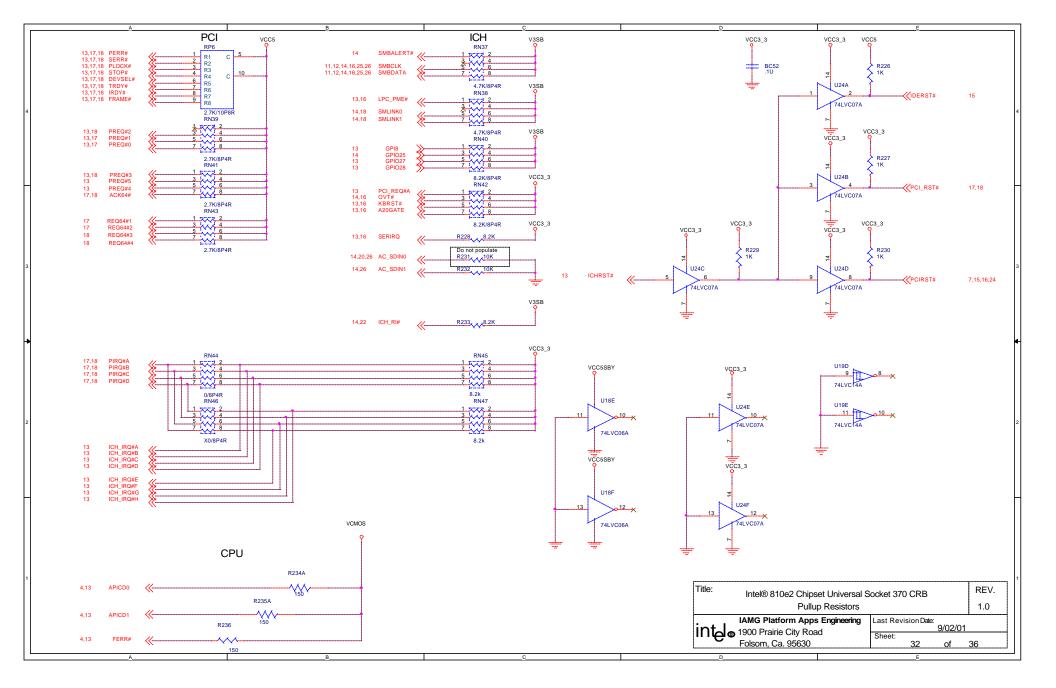


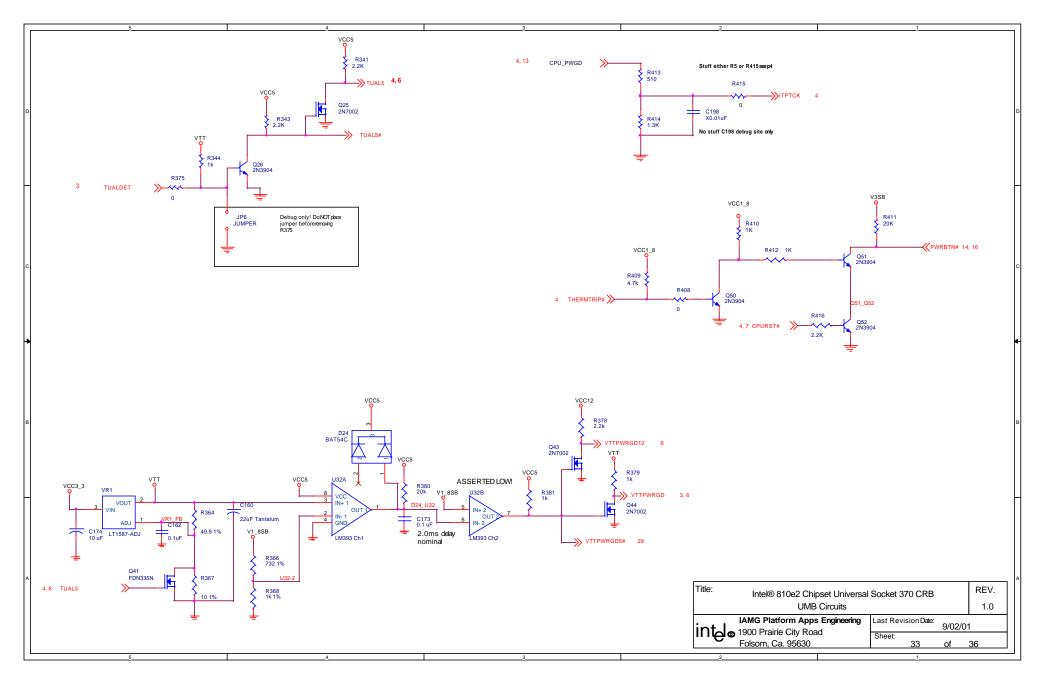


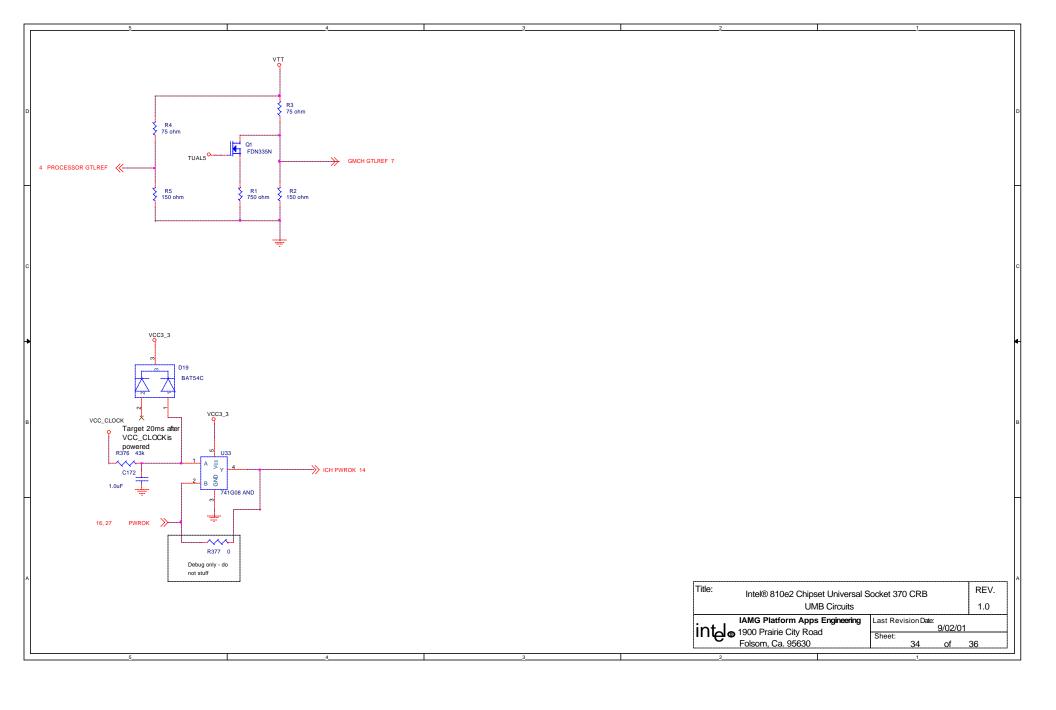




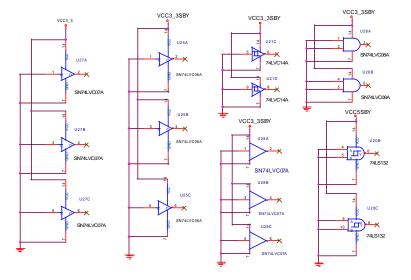








UNUSED GATES



Title:	itle: Intel® 810e2 Chipset Universal Socket370CRB		REV.
Unused Gates		1.0	
int I		Last Revision Date 9/02/0	1
II IrGi	1900 Prairie City Road Folsom, Ca. 95630	Sheet: 35 of	36

