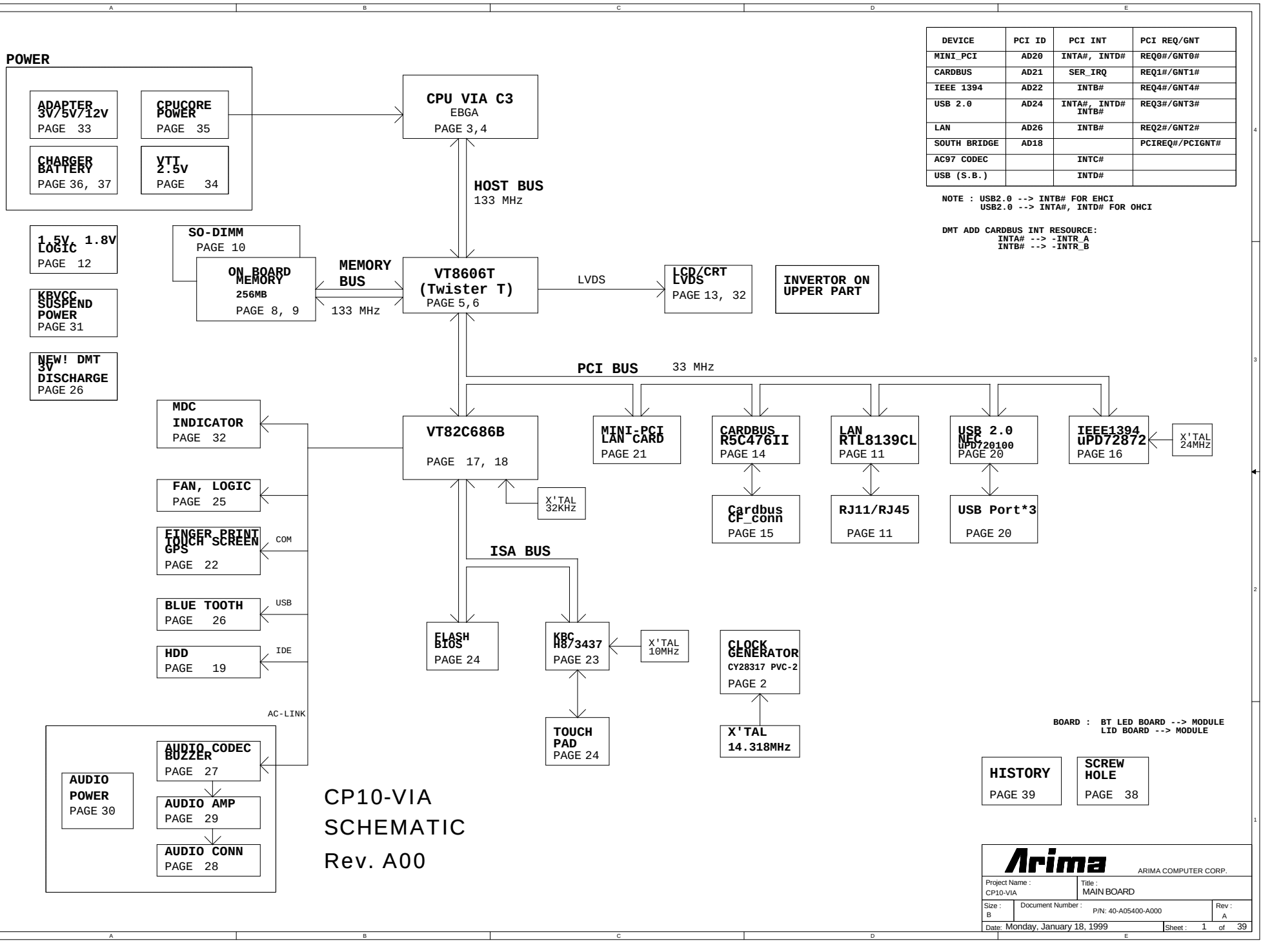


DEVICE	PCI ID	PCI INT	PCI REQ/GNT
MINI_PCI	AD20	INTA#, INTD#	REQ0#/GNT0#
CARDBUS	AD21	SER_IRQ	REQ1#/GNT1#
IEEE 1394	AD22	INTB#	REQ4#/GNT4#
USB 2.0	AD24	INTA#, INTD# INTB#	REQ3#/GNT3#
LAN	AD26	INTB#	REQ2#/GNT2#
SOUTH BRIDGE	AD18		PCIREQ#/PCIGNT#
AC97 CODEC		INTC#	
USB (S.B.)		INTD#	

NOTE : USB2.0 --> INTB# FOR EHCI
USB2.0 --> INTA#, INTD# FOR OHCI

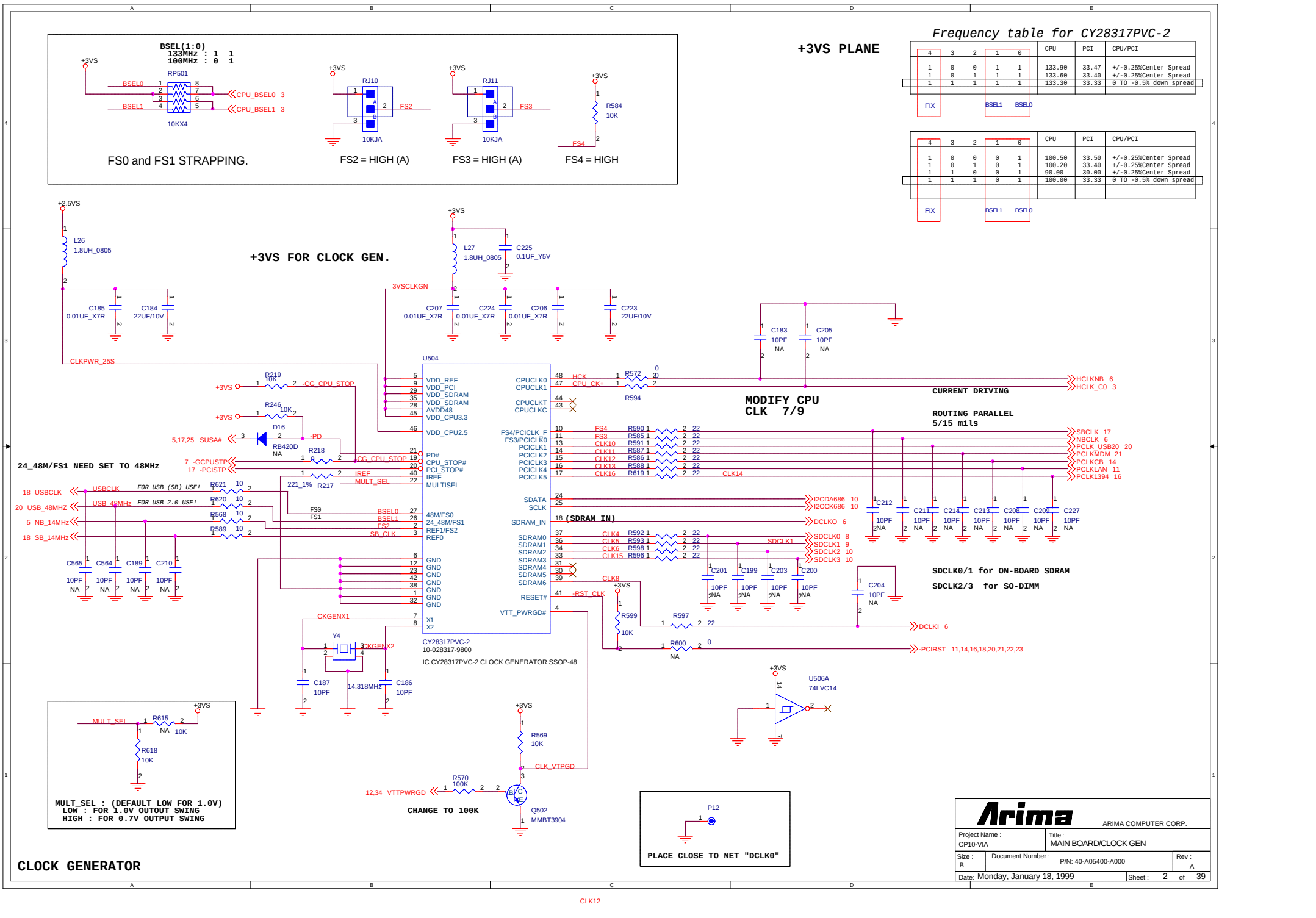
DMT ADD CARDBUS INT RESOURCE:
INTA# --> -INTR_A
INTB# --> -INTR_B

BOARD : BT LED BOARD --> MODULE
LID BOARD --> MODULE

ARIMA COMPUTER CORP.

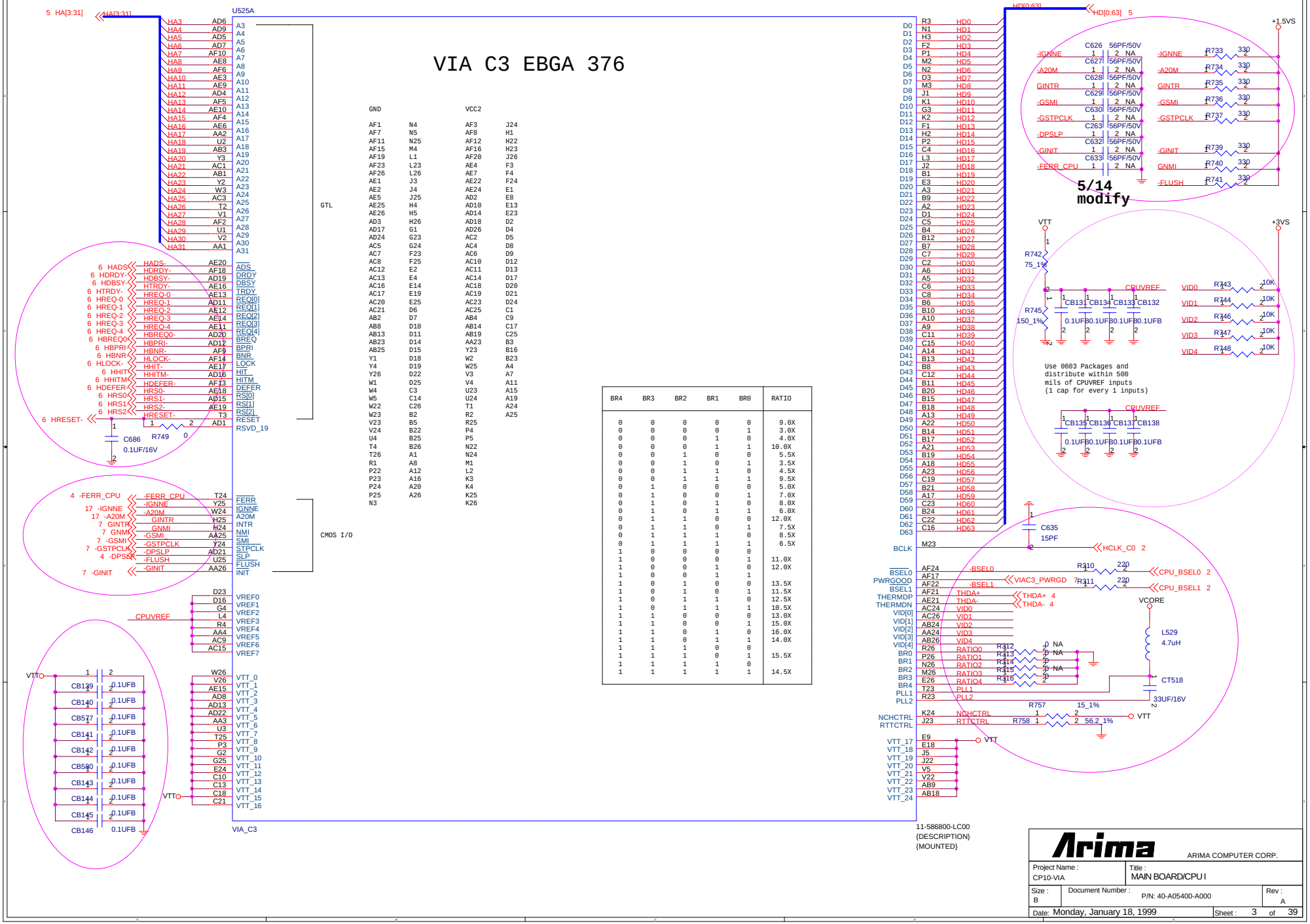
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 1 of 39	

GENERATOR

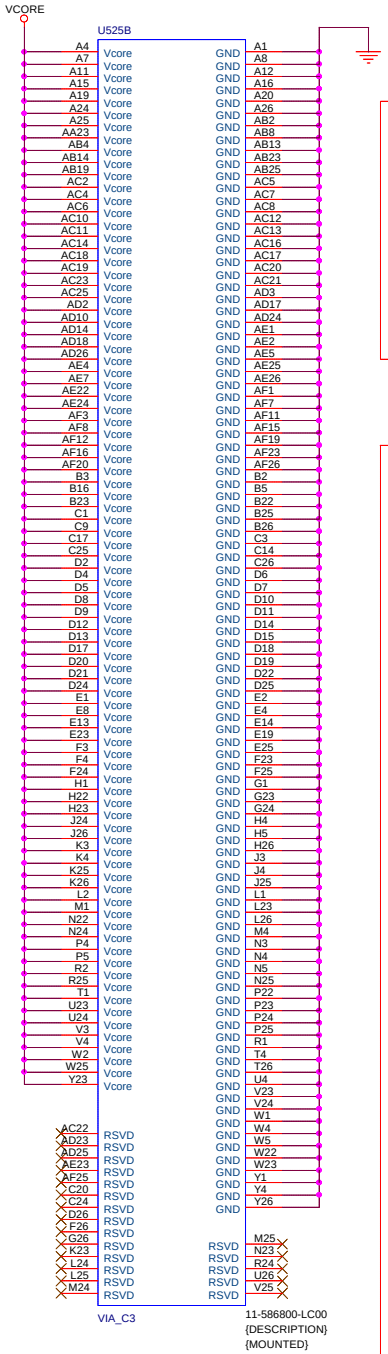

BSEL(1:0)
133MHz : 1 1
100MHz : 0 1
RP501
10KX4
FS0 and FS1 STRAPPING.
FS2 = HIGH (A)
FS3 = HIGH (A)
FS4 = HIGH
+3VS PLANE
Frequency table for CY28317PVC-2
CPU
PCI
CPU/PCI
133.90 33.47 +/-0.25%Center Spread
133.60 33.40 +/-0.25%Center Spread
133.30 33.33 0 TO -0.5% down spread
100.50 33.50 +/-0.25%Center Spread
100.20 33.40 +/-0.25%Center Spread
90.00 30.00 +/-0.25%Center Spread
100.00 33.33 0 TO -0.5% down spread
FIX
BSEL1
BSEL0
+3VS FOR CLOCK GEN.
U504
CY28317PVC-2
10-028317-9800
IC CY28317PVC-2 CLOCK GENERATOR SSOP-48
MODIFY CPU CLK 7/9
CURRENT DRIVING
ROUTING PARALLEL 5/15 mils
24_48M/FS1 NEED SET TO 48MHz
(SDRAM_IN)
SDCLK0/1 for ON-BOARD SDRAM
SDCLK2/3 for SO-DIMM
MULT_SEL : (DEFAULT LOW FOR 1.0V)
LOW : FOR 1.0V OUTOUT SWING
HIGH : FOR 0.7V OUTPUT SWING
CHANGE TO 100K
PLACE CLOSE TO NET "DCLK0"
CLOCK GENERATOR
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD/CLOCK GEN
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 2 of 39

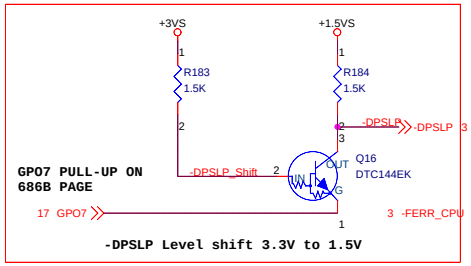
CLK12

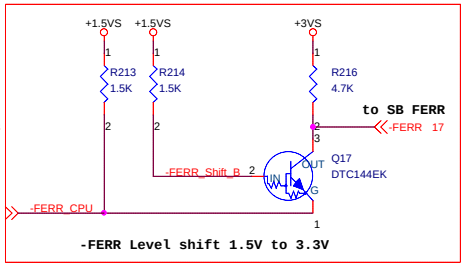
VIA C3 EBGA 376

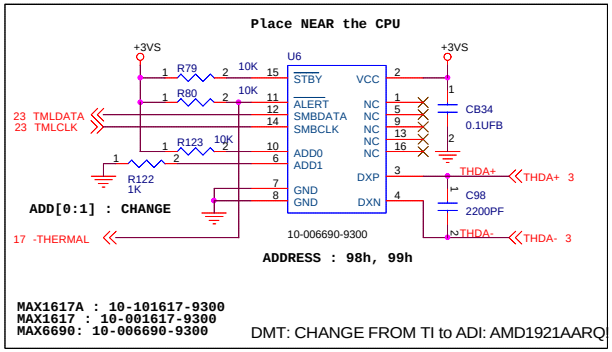


Arima	ARIMA COMPUTER CORP.
Project Name : CP10-VIA	Title : MAIN BOARD/CPU I
Size : B	Document Number : P/N: 40-A05400-A000
Rev : A	
Date: Monday, January 18, 1999	Sheet : 3 of 39

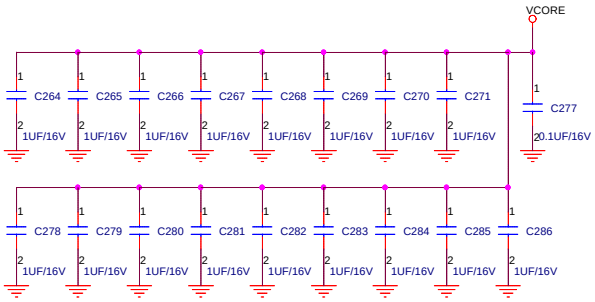


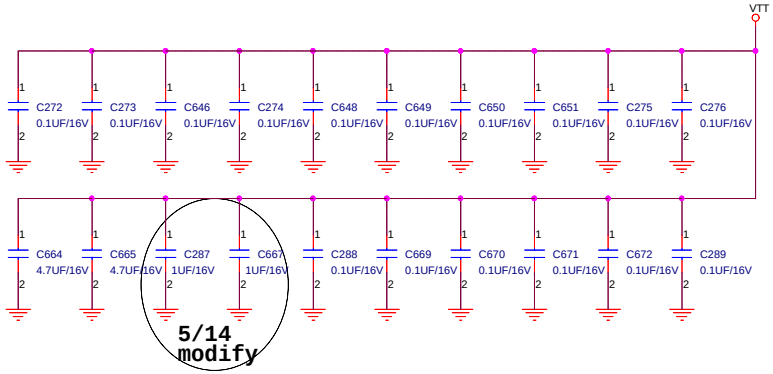


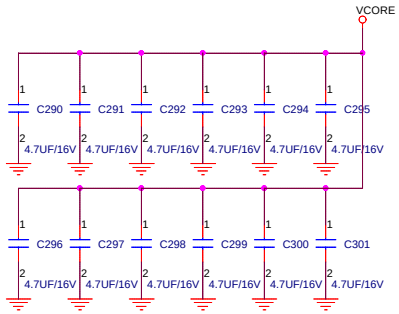




CPU DECOUPING







CPU 2/2

ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD/CPU II	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 4 of 39	

+3VS, +2.5VS, VTT, VSUS25(+2.5V)

North Bridge power name list:

+2.5VS => +DACVDD, +PLLVDD2, +PLLVDD1, LVCKAVDD, LAVDD, VCCA_NB

+3VS => LVDD

+2.5V: SUSPEND WELL POWER

PLACE CLOSE TO NET "NBCLK", "DCLKI", "HCLKNB"

DMT. SELECTABLE. SPD1 and SPCLK1 FAI. 0JB for channel 2

DMT. Resverse LDO FOR VGA.

BE CAREFUL FOR LAYOUT !!! NO VIA!!!

MODIFY FOR EMI 10/28

U501A — VT8606TWISTER_T 10-108606-8700 — IC VT8606T NORTH BRIDGE PBGA-552

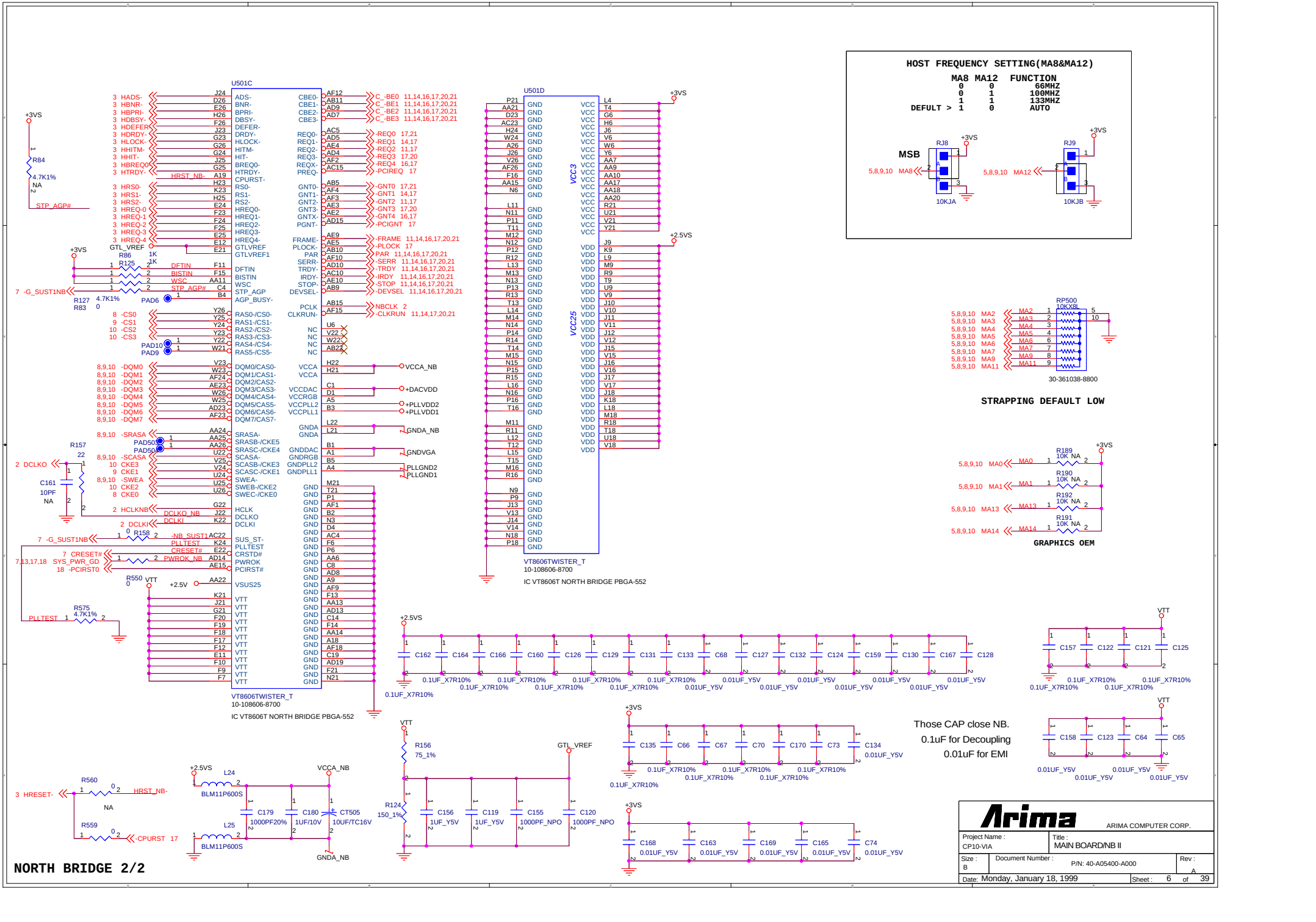
U501B — VT8606TWISTER_T 10-108606-8700 — IC VT8606T NORTH BRIDGE PBGA-552

VGA INT = -INTR_A

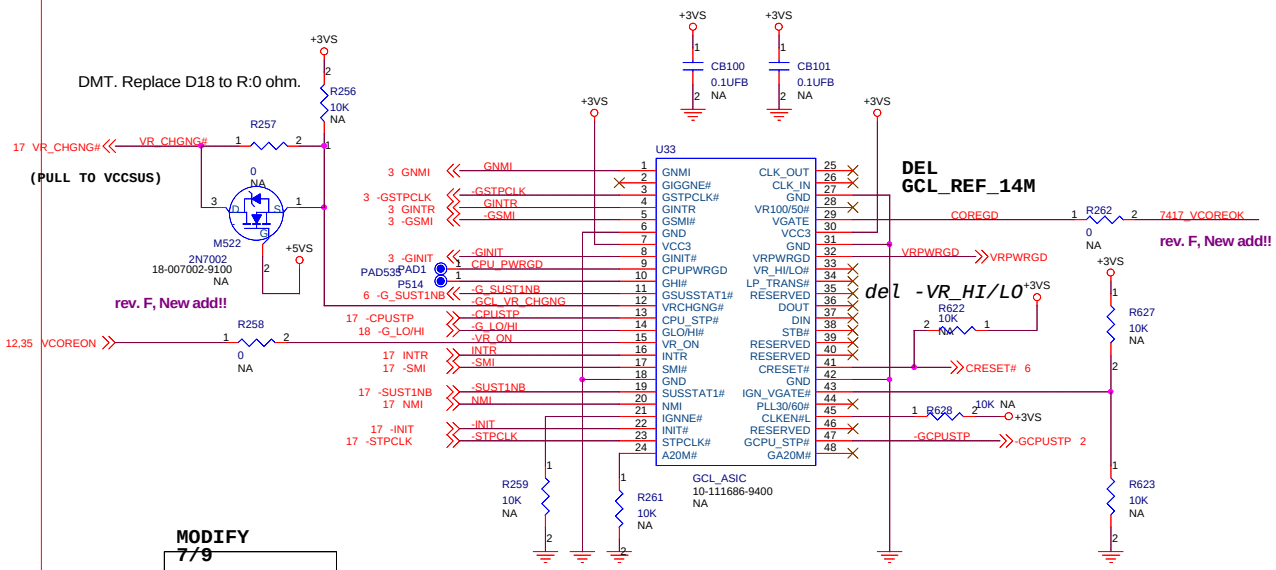
NORTH BRIDGE 1/2

Project Name :	CP10-VIA
Title :	MAIN BOARD/NB I
Size :	B
Document Number :	P/N: 40-A05400-A000
Rev :	A
Date:	Monday, January 18, 1999
Sheet :	5 of 39

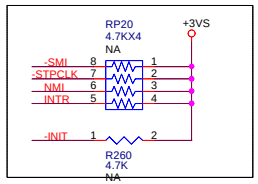
ARIMA COMPUTER CORP.

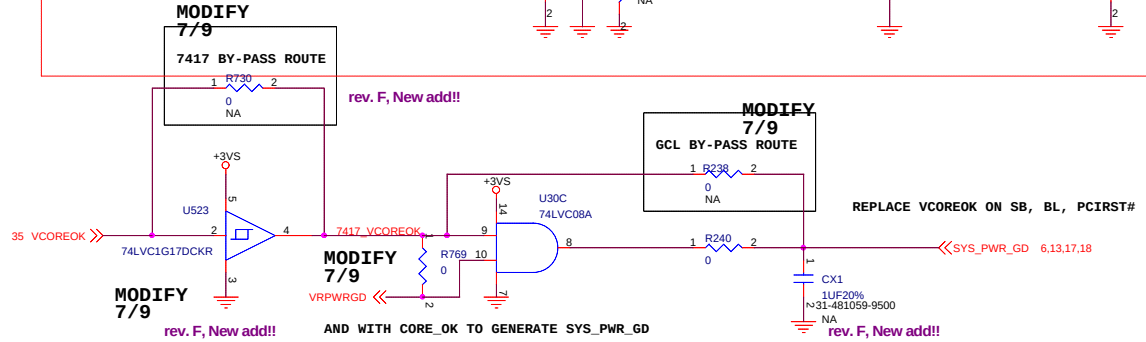

HOST FREQUENCY SETTING(MA8&MA12)
MA8 MA12 FUNCTION
0 0 66MHZ
0 1 100MHZ
1 1 133MHZ
DEFULT > 1 0 AUTO
MSB
RJ8
RJ9
10KJA
10KJB
U501C
U501D
VT8606TWISTER_T
10-108606-8700
IC VT8606T NORTH BRIDGE PBGA-552
30-361038-8800
STRAPPING DEFAULT LOW
GRAPHICS OEM
Those CAP close NB.
0.1uF for Decoupling
0.01uF for EMI
NORTH BRIDGE 2/2
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD/NB II
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 6 of 39

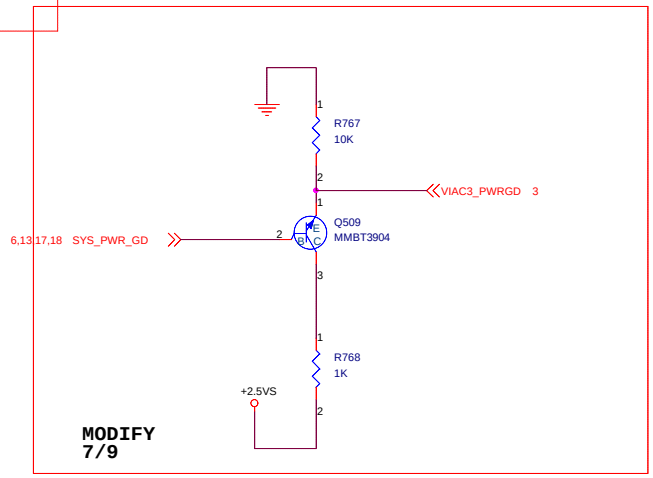
FOR VIA CPU GCL NA



INSTALL FOR GCL
NA FOR BY-PASS GCL





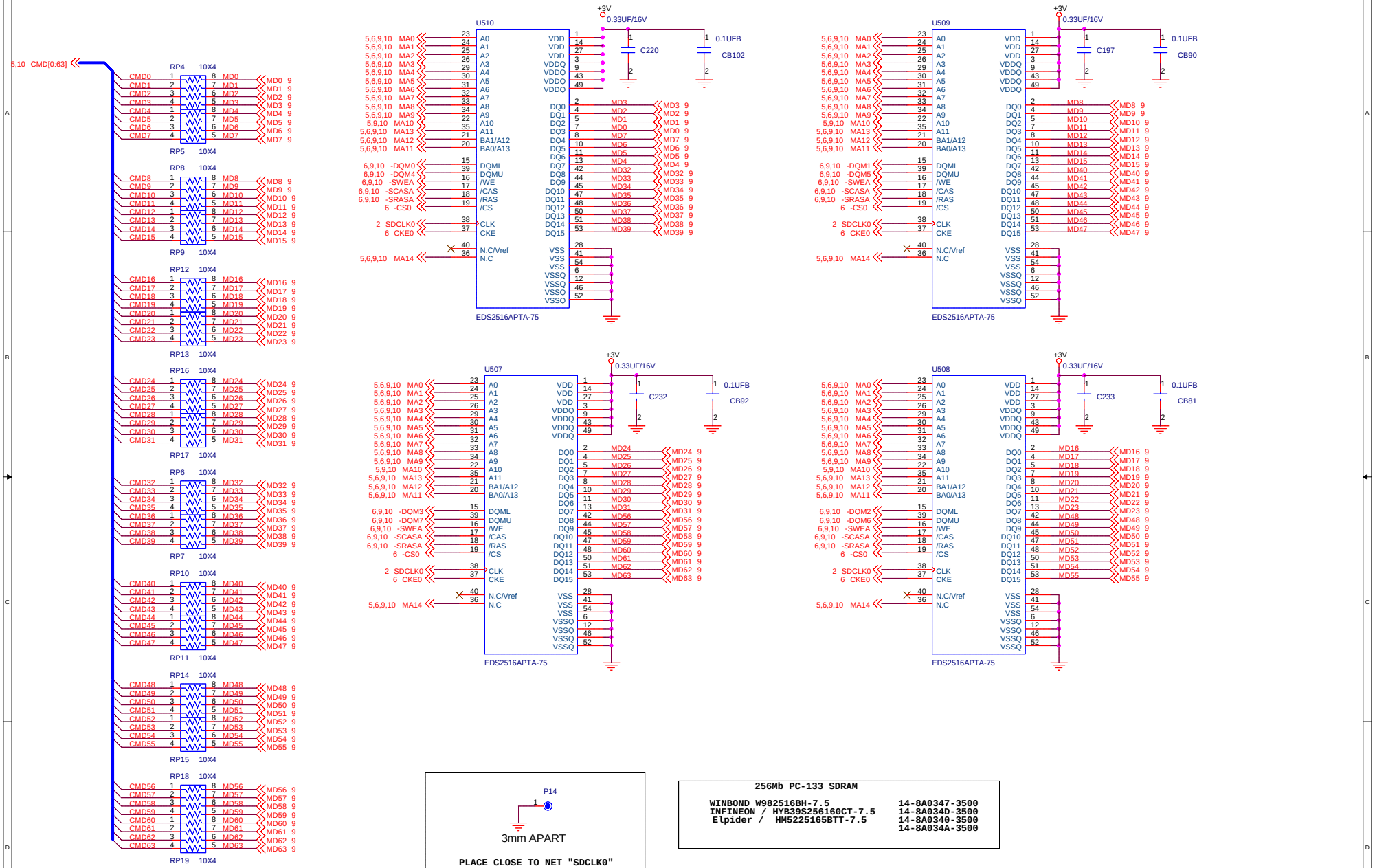


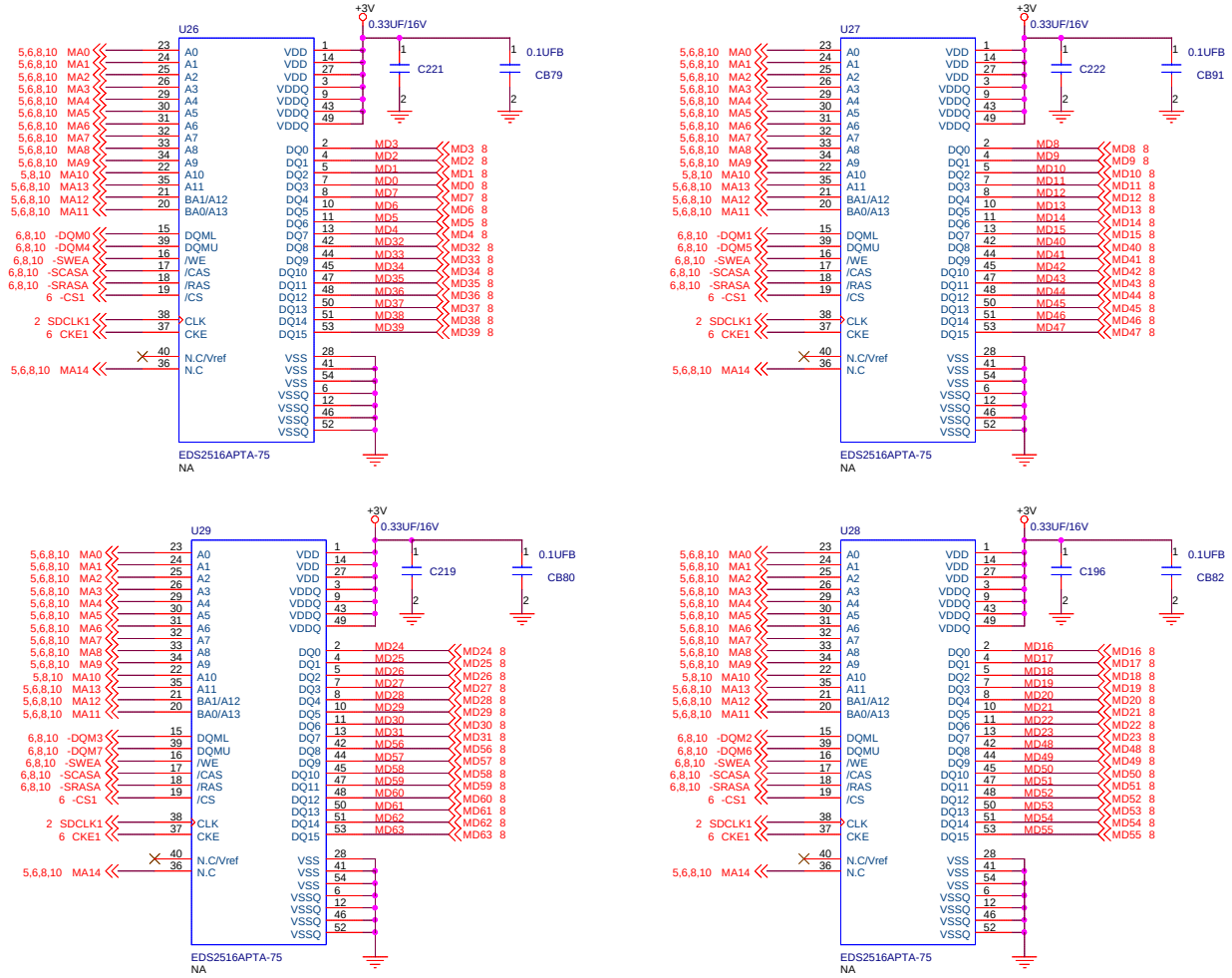
GCL BY-PASS ROUTE

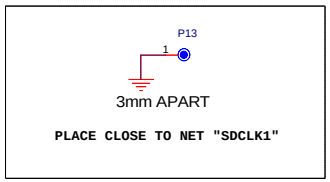
PULL ON PAGE 3

3 GNMI	-GNMI	R624	NMI	NMI 17
3 -GSTPCLK	-GSTPCLK	R634	-STPCLK	-STPCLK 17
3 GINTR	GINTR	R632	INTR	INTR 17
3 -GSMI	-GSMI	R635	-SMI	-SMI 17
3 -GINIT	-GINIT	R636	-INIT	-INIT 17
2 -GCPUSTP	-GCPUSTP	R625	-CPUSTP	-CPUSTP 17
6 -G_SUST1NB	-G_SUST1NB	R633	-SUST1NB	-SUST1NB 17

Arima	ARIMA COMPUTER CORP.
Project Name : CP10-VIA	Title : MAIN BOARD/GCL
Size : B	Document Number : P/N: 40-A05400-A000
Rev : A	
Date: Monday, January 18, 1999	Sheet : 7 of 39


5,10 CMD[0:63]
RP4 10X4
CMD0 CMD1 CMD2 CMD3 CMD4 CMD5 CMD6 CMD7
MD0 MD1 MD2 MD3 MD4 MD5 MD6 MD7
RP5 10X4
RP8 10X4
CMD8 CMD9 CMD10 CMD11 CMD12 CMD13 CMD14 CMD15
MD8 MD9 MD10 MD11 MD12 MD13 MD14 MD15
RP9 10X4
RP12 10X4
CMD16 CMD17 CMD18 CMD19 CMD20 CMD21 CMD22 CMD23
MD16 MD17 MD18 MD19 MD20 MD21 MD22 MD23
RP13 10X4
RP16 10X4
CMD24 CMD25 CMD26 CMD27 CMD28 CMD29 CMD30 CMD31
MD24 MD25 MD26 MD27 MD28 MD29 MD30 MD31
RP17 10X4
RP6 10X4
CMD32 CMD33 CMD34 CMD35 CMD36 CMD37 CMD38 CMD39
MD32 MD33 MD34 MD35 MD36 MD37 MD38 MD39
RP7 10X4
RP10 10X4
CMD40 CMD41 CMD42 CMD43 CMD44 CMD45 CMD46 CMD47
MD40 MD41 MD42 MD43 MD44 MD45 MD46 MD47
RP11 10X4
RP14 10X4
CMD48 CMD49 CMD50 CMD51 CMD52 CMD53 CMD54 CMD55
MD48 MD49 MD50 MD51 MD52 MD53 MD54 MD55
RP15 10X4
RP18 10X4
CMD56 CMD57 CMD58 CMD59 CMD60 CMD61 CMD62 CMD63
MD56 MD57 MD58 MD59 MD60 MD61 MD62 MD63
RP19 10X4
U510
U509
U507
U508
EDS2516APTA-75
+3V
0.33UF/16V
0.1UFB
C220
CB102
C197
CB90
C232
CB92
C233
CB81
P14
3mm APART
PLACE CLOSE TO NET "SDCLK0"
256Mb PC-133 SDRAM
WINBOND W982516BH-7.5 14-8A0347-3500
INFINEON / HYB39S256160CT-7.5 14-8A034D-3500
Elpider / HM5225165BTT-7.5 14-8A0340-3500
14-8A034A-3500
ON BOARD SDRAM BANK 0
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD/MEMORY I
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 8 of 39

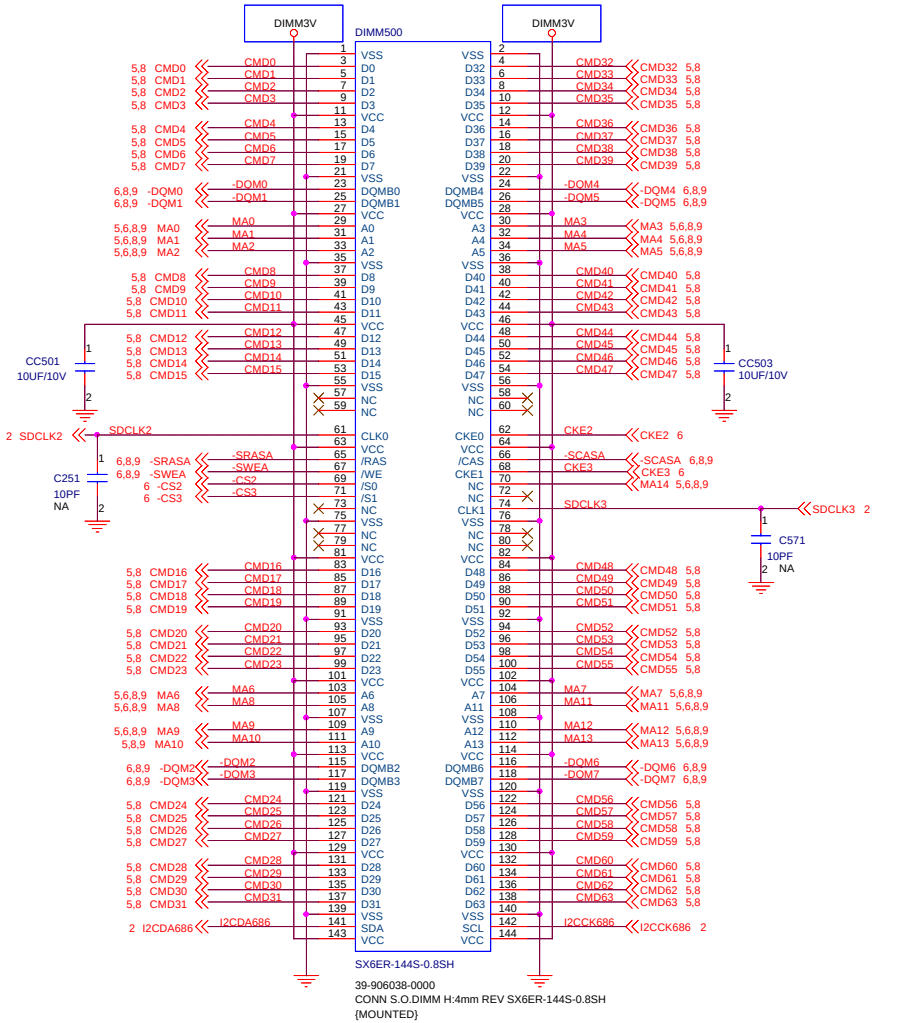




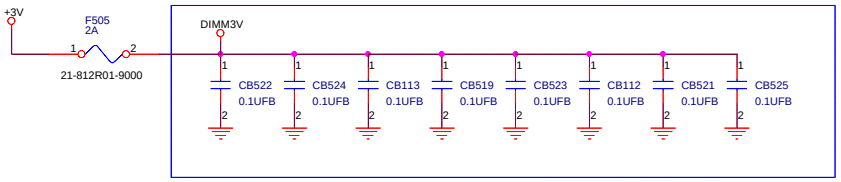
ON BOARD SDRAM BANK 1

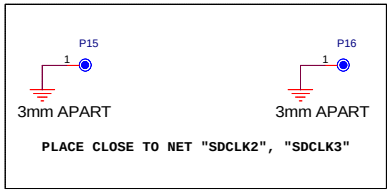
ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD/MEMORY II	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 9 of 39	



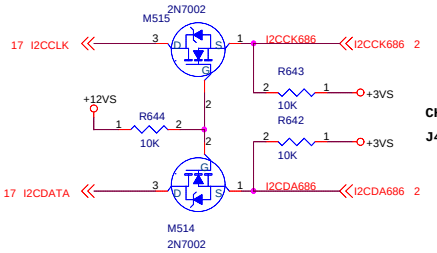
CHANGE TO REVERSED TYPE FOR LAYOUT !





PLACE CLOSE TO NET "SDCLK2", "SDCLK3"

ON VCCSUS (S.B.)

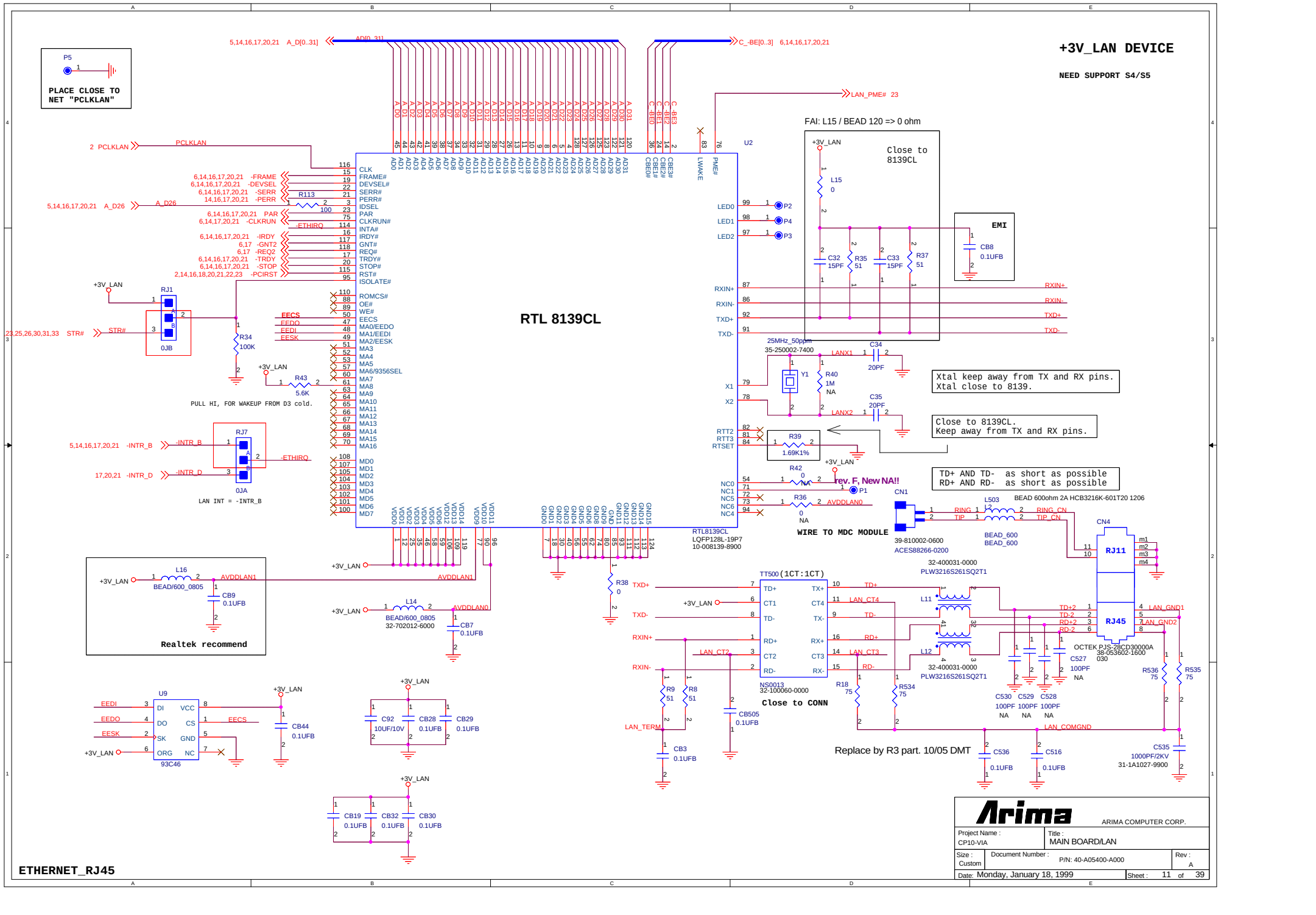


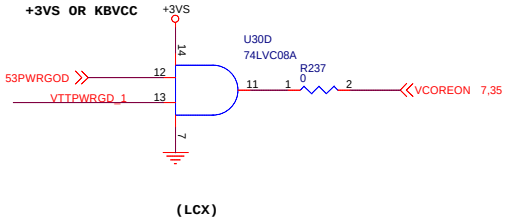
CHECK 3VS OR 3V

J4 USE +3VS !!!

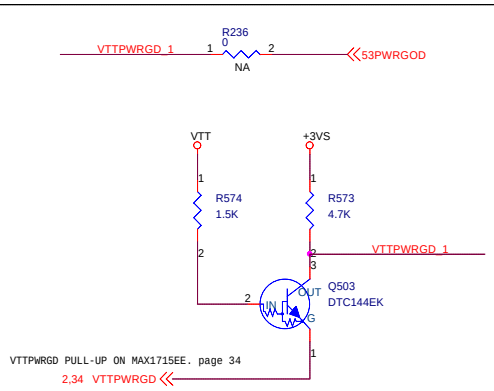
SO-DIMM (MEMORY BANK 2 & 3)

Arima	ARIMA COMPUTER CORP.	
Project Name : CP10-VIA	Title : MAIN BOARD/DIMM	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 10 of 39	


+3V_LAN DEVICE
NEED SUPPORT S4/S5
PLACE CLOSE TO NET "PCLKLAN"
RTL 8139CL
RTL8139CL LQFP128L-19P7 10-008139-8900
FAI: L15 / BEAD 120 => 0 ohm
Close to 8139CL
EMI
Xtal keep away from TX and RX pins. Xtal close to 8139.
Close to 8139CL. Keep away from TX and RX pins.
TD+ AND TD- as short as possible
RD+ AND RD- as short as possible
WIRE TO MDC MODULE
Rev. F, New NA!!
PULL HI, FOR WAKEUP FROM D3 cold.
LAN INT = -INTR_B
Realtek recommend
Close to CONN
Replace by R3 part. 10/05 DMT
ETHERNET_RJ45
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD/LAN
Size : Custom
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 11 of 39



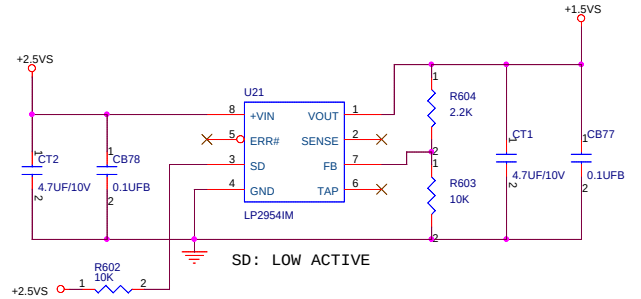
del GMUXSEL AND -DPSLP_PWR

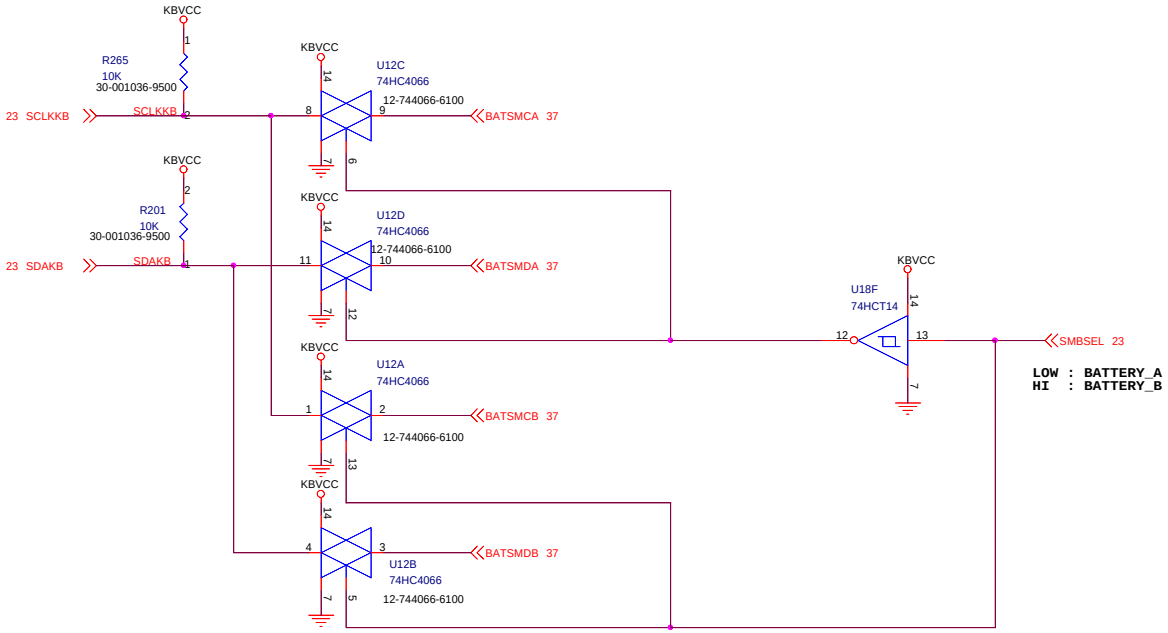


DMT MODIFY LIST:

ADD 0 OHM IN 53PWRGOD AND VTTPWRGD

ADD VTTPWRGD LEVEL SHIFT SCHEMATIC





IRT: MERGER U12 & U23 (REMOVE U23)

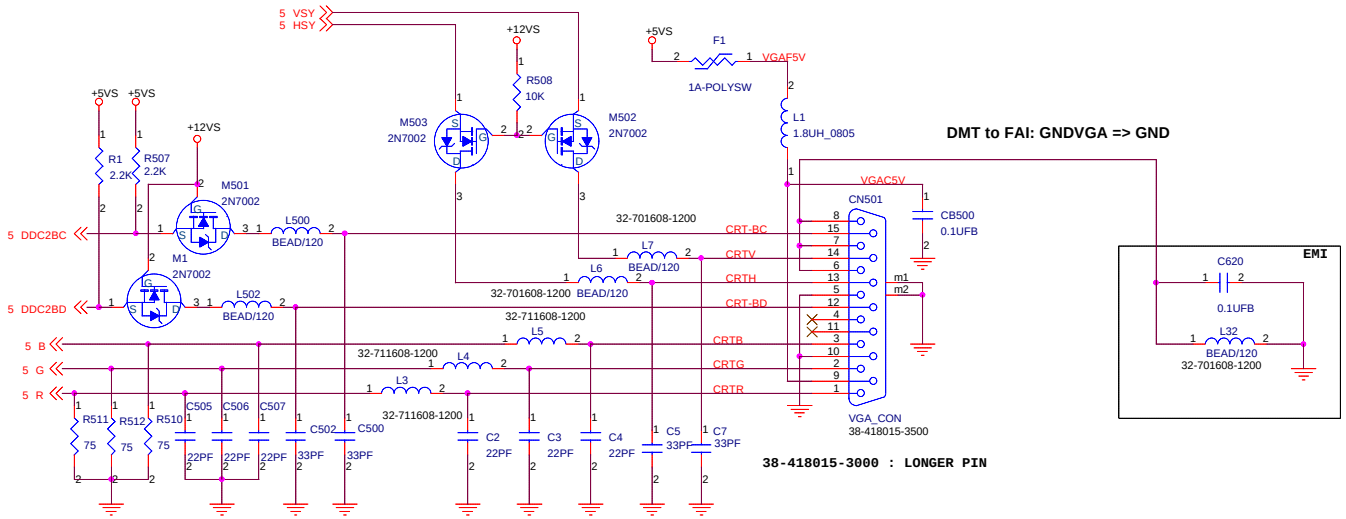
U23A => U12A

U23B => U12B

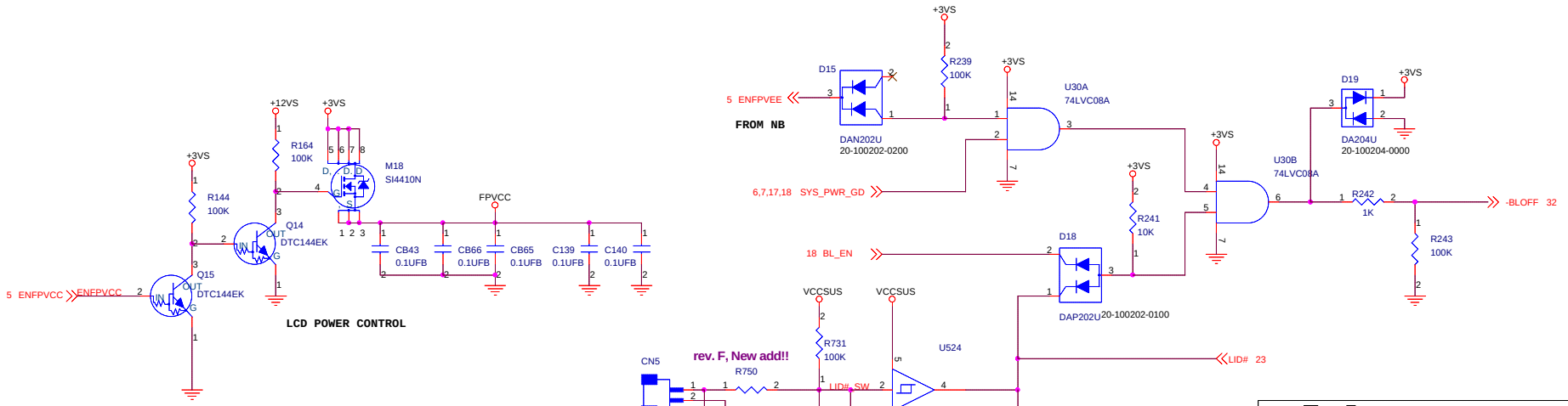
POWER GOOD

ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD/POWERGOOD LOGIC	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 12 of 39	

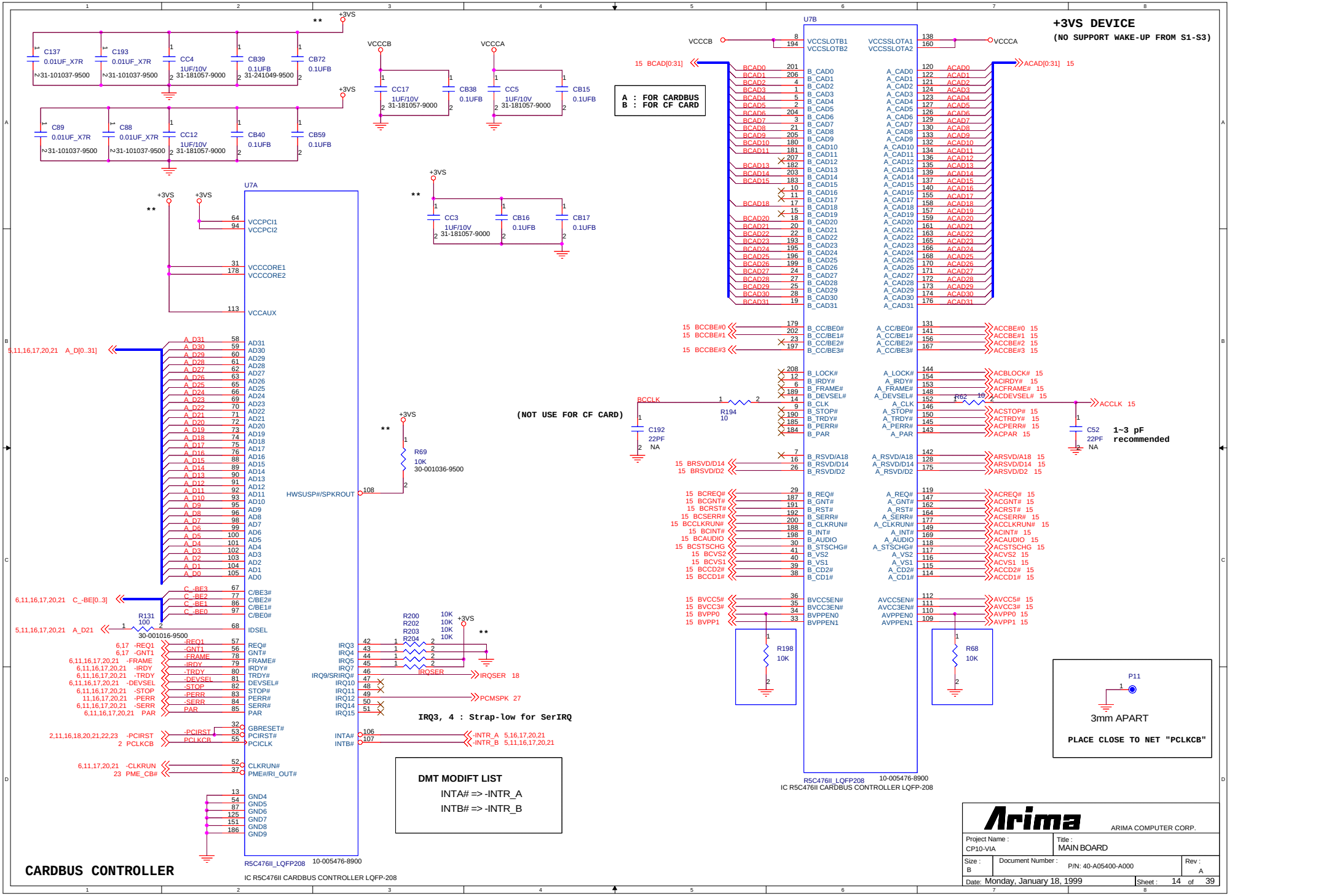


BACKLIT & PANEL POWER



VGA(CRT) & LCD BACK-LIT

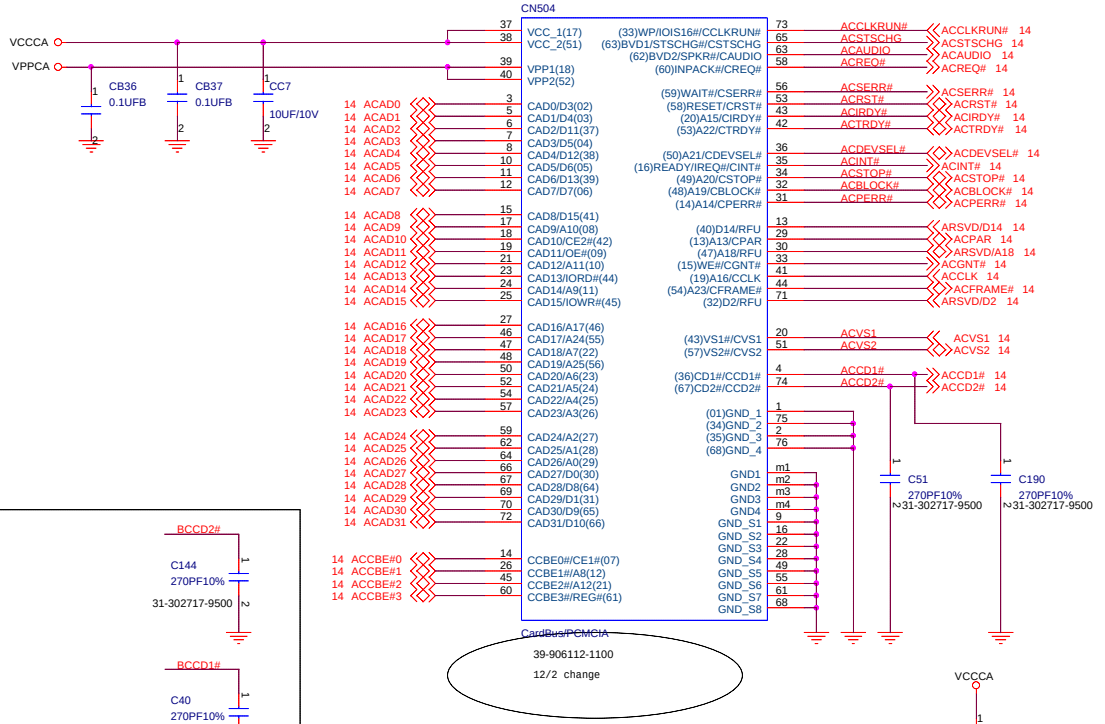
Arima	ARIMA COMPUTER CORP.		
Project Name : CP10-VIA	Title : MAIN BOARD/VGA		
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A	
Date: Monday, January 18, 1999	Sheet : 13 of 39		


+3VS DEVICE
(NO SUPPORT WAKE-UP FROM S1-S3)
A : FOR CARDBUS
B : FOR CF CARD
(NOT USE FOR CF CARD)
1~3 pF recommended
3mm APART
PLACE CLOSE TO NET "PCLKCB"
DMT MODIFT LIST
INTA# => -INTR_A
INTB# => -INTR_B
IRQ3, 4 : Strap-low for SerIRQ
CARDBUS CONTROLLER
U7A
U7B
R5C476II_LQFP208
10-005476-8900
IC R5C476II CARDBUS CONTROLLER LQFP-208
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 14 of 39

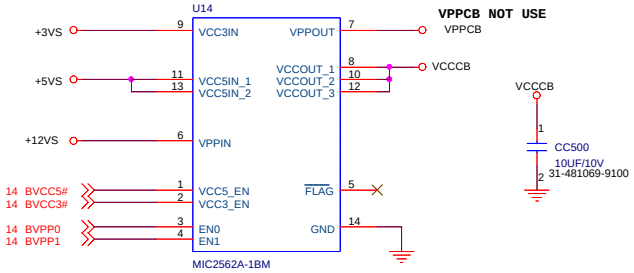
PCMCIA BODY : 39-906113-0000

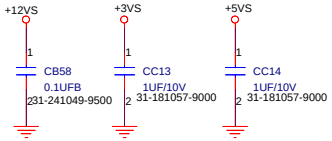
For DMT. NEW PART!!

CARDBUS CONN

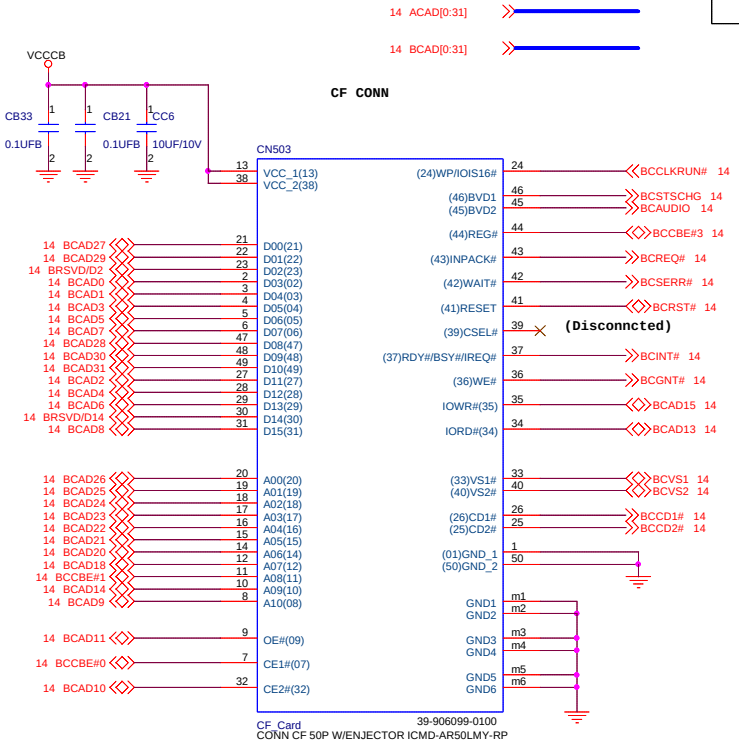


VPPCB NOT USE

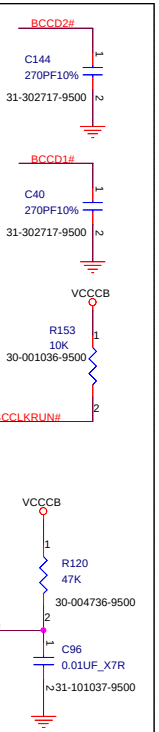


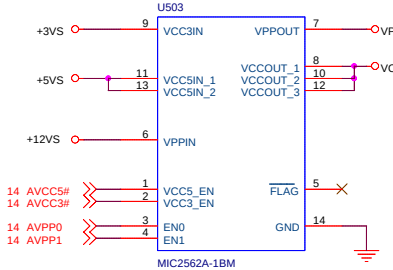


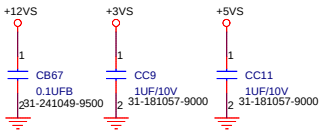
CF CONN

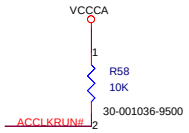


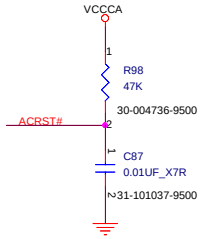
CARDBUS SOCKET







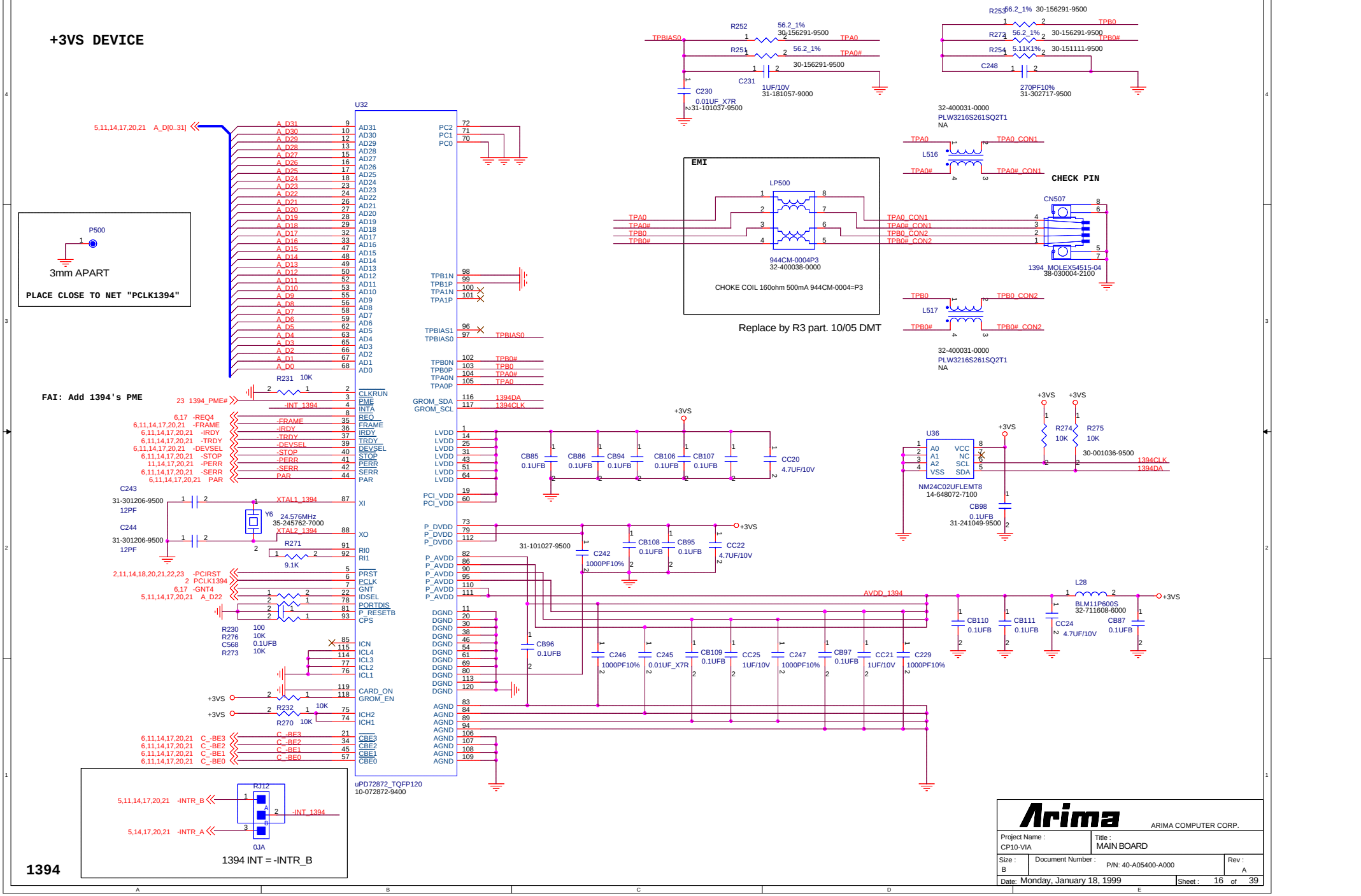




Arima — ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Sunday, January 24, 1999	Sheet : 15 of 39	

+3VS DEVICE


P500
3mm APART
PLACE CLOSE TO NET "PCLK1394"
FAI: Add 1394's PME
U32
uPD72872_TQFP120
10-072872-9400
EMI
LP500
944CM-0004P3
32-400038-0000
CHOKE COIL 160ohm 500mA 944CM-0004=P3
Replace by R3 part. 10/05 DMT
CHECK PIN
CN507
1394_MOLEX54515-04
38-030004-2100
L516
L517
32-400031-0000
PLW3216S261SQ2T1
NA
U36
NM24C02ULEMT8
14-648072-7100
30-001036-9500
L28
BLM11P600S
32-711608-6000
RJ12
0JA
1394 INT = -INTR_B
1394
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 16 of 39

+3VS/+5VS, VCCSUS

PCI BUS

SUSPEND POWER PLANE:
PWRGD,RSMRST#,PWRBTN#,SMBCLK,SMBDATA,
SUSCLK,SUSA#,SUSB#,SUSC#,SUSST1#,GPI1,
GPI2,GPI3,GPI5,GPI6,GPI7,GPO0.

U514A

AUDIO & GAME
IDE
SIDE
SB
PM
H/W MONITOR
PCI

CD-ROM REMOVED

(DEEP SLEEP)

USE +3VS

DMT. Change R295 from 10k to NA.

SB STRAP:
0: AUDIO DISABLE/DEDICATE 2ND HD
1: AUDIO ENABLE/2ND HD MUX WITH ISA

CHECK RTC

RLimit=100 ohm
FAI 100 ohm => 680 ohm

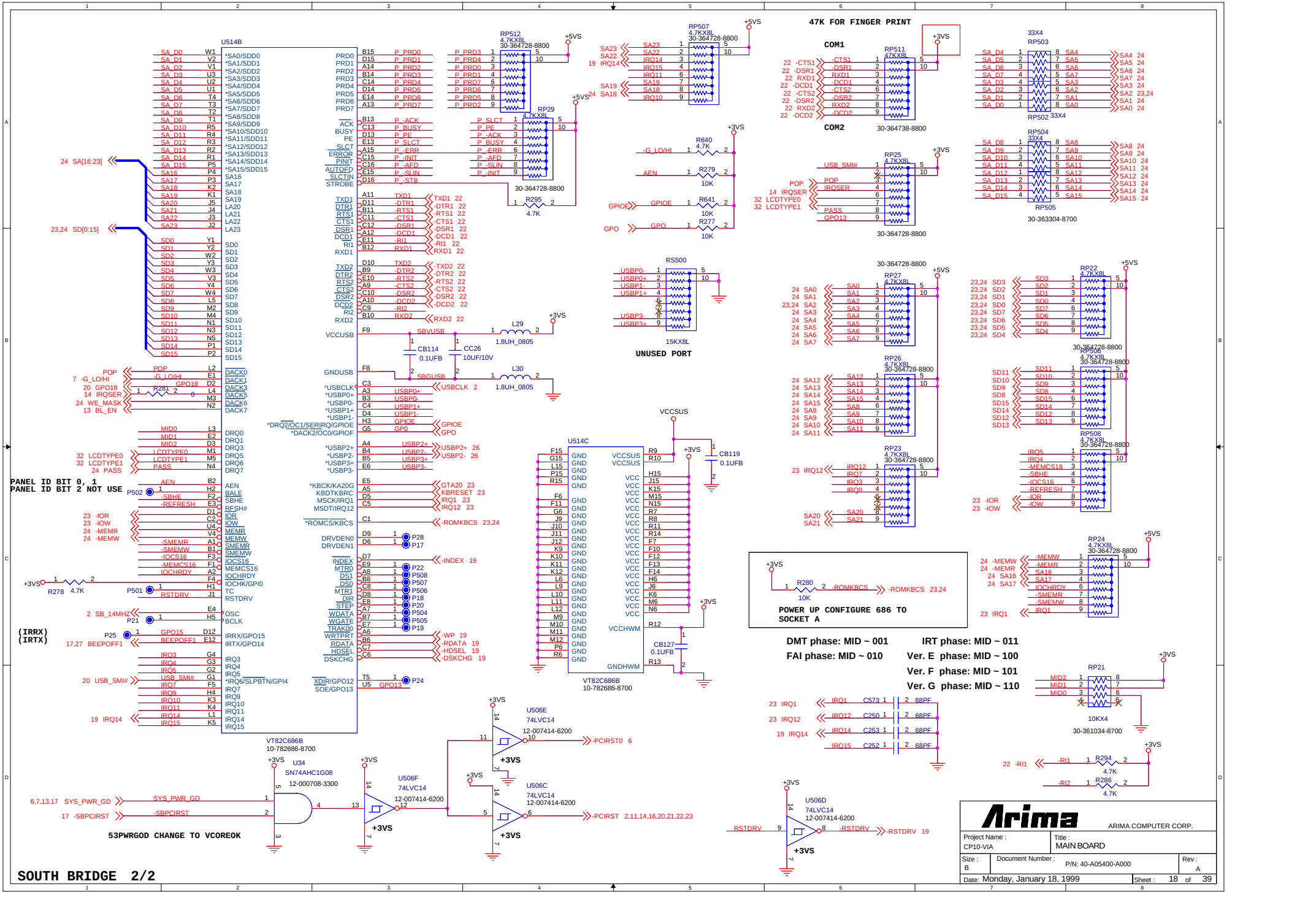
RTC battery: 83-203027-0000

SOUTH BRIDGE 1/2

X'TAL 32.768KHz 12.5pF 10ppm SMD

VT82C686B
10-782686-8700

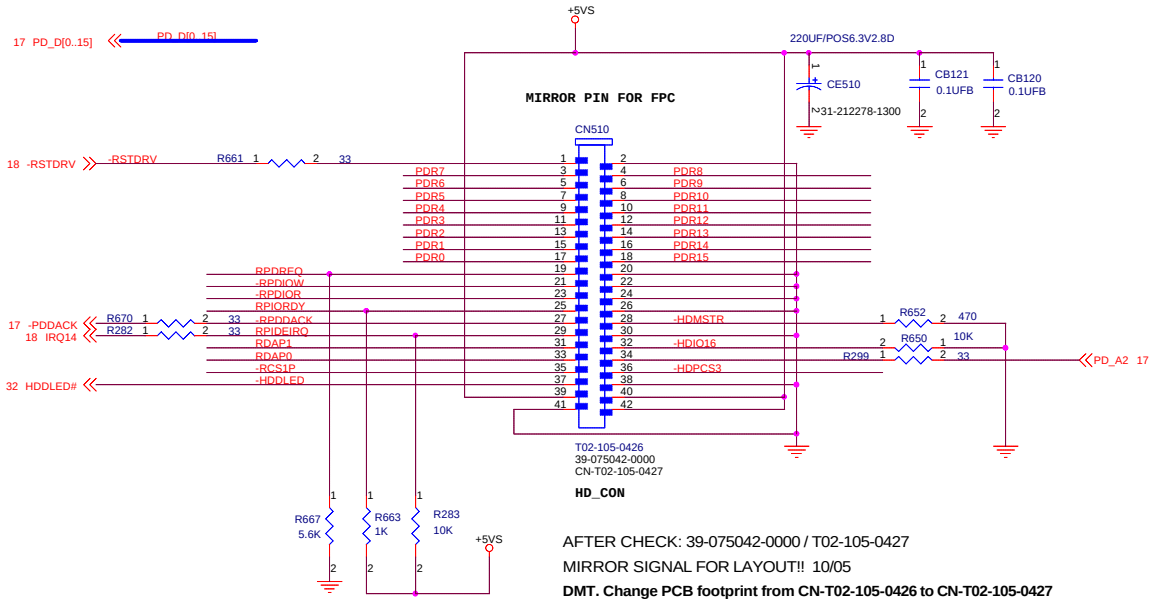
Arima	ARIMA COMPUTER CORP.
Project Name : CP10-VIA	Title : MAIN BOARD
Size : B	Document Number : P/N: 40-A05400-A000
Rev : A	
Date: Monday, January 18, 1999	Sheet : 17 of 39


U514B
SA_D0 W1 *SA0/SDD0
SA_D1 V2 *SA1/SDD1
SA_D2 V1 *SA2/SDD2
SA_D3 U3 *SA3/SDD3
SA_D4 U2 *SA4/SDD4
SA_D5 U1 *SA5/SDD5
SA_D6 T4 *SA6/SDD6
SA_D7 T3 *SA7/SDD7
SA_D8 T2 *SA8/SDD8
SA_D9 T1 *SA9/SDD9
SA_D10 R5 *SA10/SDD10
SA_D11 R4 *SA11/SDD11
SA_D12 R3 *SA12/SDD12
SA_D13 R2 *SA13/SDD13
SA_D14 R1 *SA14/SDD14
SA_D15 P5 *SA15/SDD15
24 SA[16:23]
23,24 SD[0:15]
PANEL ID BIT 0, 1
PANEL ID BIT 2 NOT USE
(IRRX)
(IRTX)
53PWRGOD CHANGE TO VCOREOK
SOUTH BRIDGE 2/2
47K FOR FINGER PRINT
COM1
COM2
30-364738-8800
30-363304-8700
UNUSED PORT
15KX8L
POWER UP CONFIGURE 686 TO SOCKET A
DMT phase: MID ~ 001
FAI phase: MID ~ 010
IRT phase: MID ~ 011
Ver. E phase: MID ~ 100
Ver. F phase: MID ~ 101
Ver. G phase: MID ~ 110
VT82C686B 10-782686-8700
VT82C686B 10-782686-8700
53PWRGOD CHANGE TO VCOREOK
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 18 of 39

HDD PIN DEFINE

1	RESET	2	GND
3	D7	4	D8
5	D6	6	D9
7	D5	8	D10
9	D4	10	D11
11	D3	12	D12
13	D2	14	D13
15	D1	16	D14
17	D0	18	D15
19	GND	20	(KEY)
21	REQ	22	GND
23	IOW	24	GND
25	IOR	26	GND
27	IORDY	28	MASTER
29	DACK	30	GND
31	IRQ	32	IO16
33	A1	34	PDIAG
35	A0	36	A2
37	CS1	38	CS3
39	DASP(LED)	40	GND
41	5V	42	5V
43	GND	44	NC

HDD 44-PIN <-- (FPC) --> CONN 42-PIN



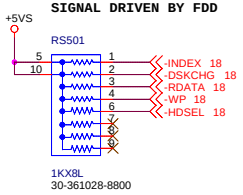
AFTER CHECK: 39-075042-0000 / T02-105-0427

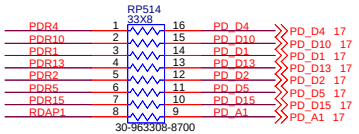
MIRROR SIGNAL FOR LAYOUT!! 10/05

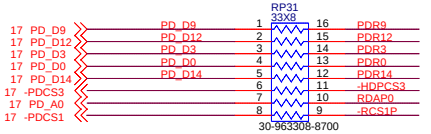
DMT. Change PCB footprint from CN-T02-105-0426 to CN-T02-105-0427

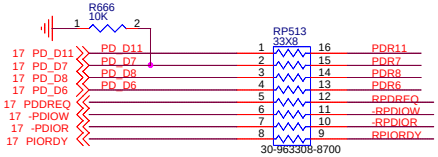
FDD I/F

SIGNAL DRIVEN BY FDD



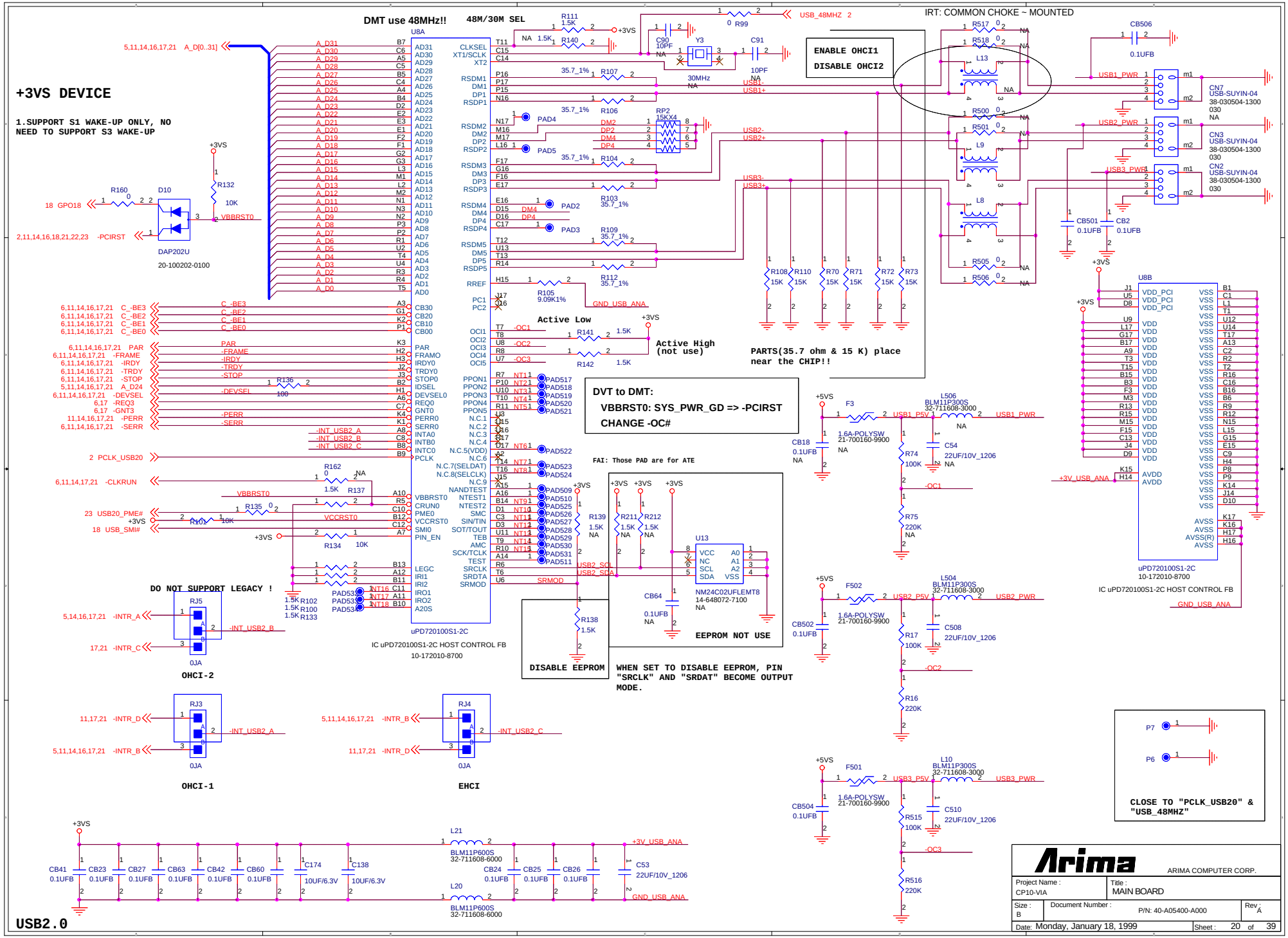


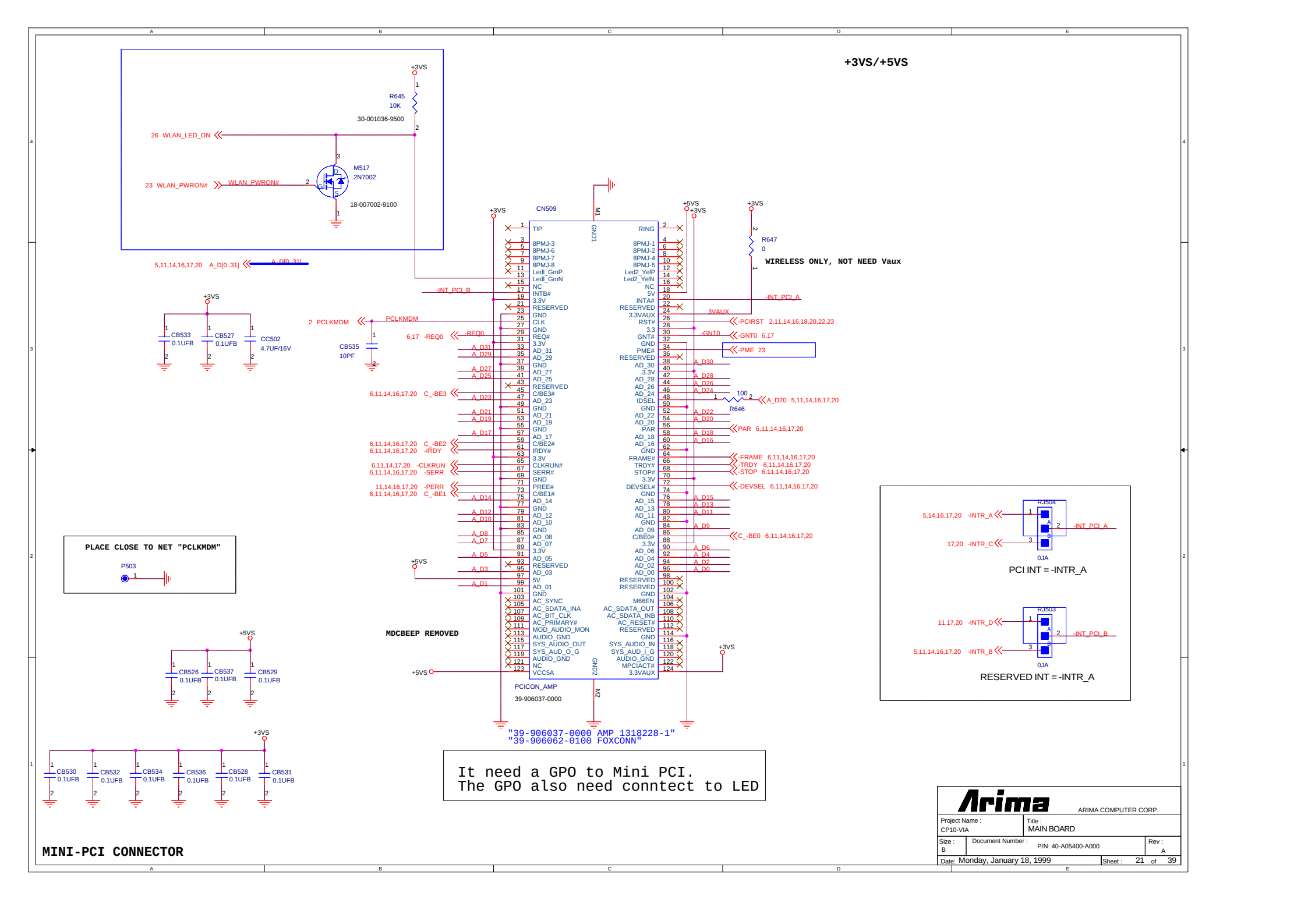


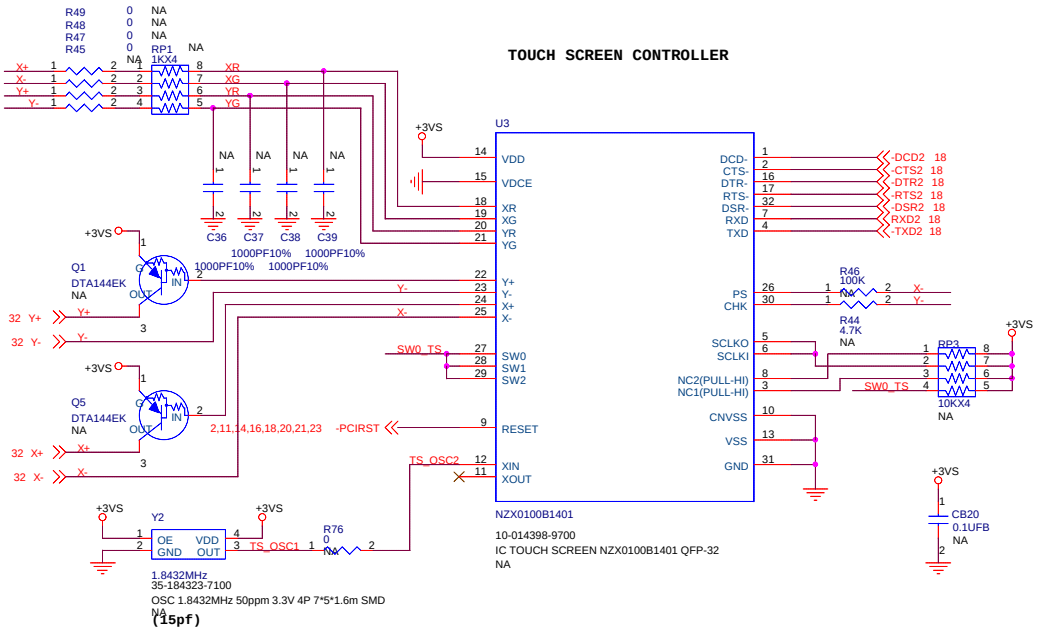


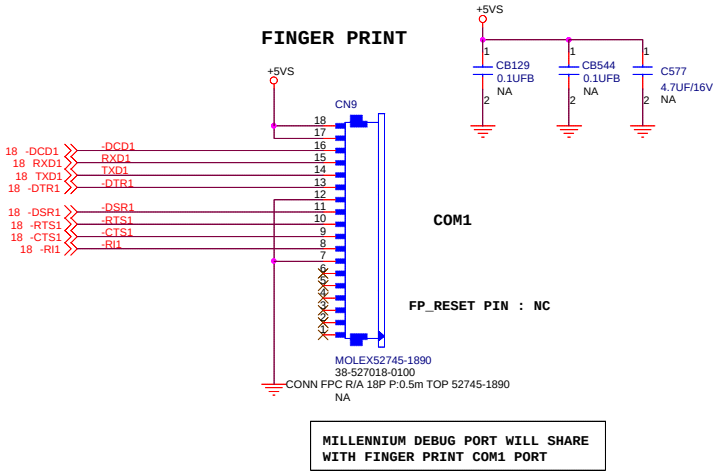
IDE CONNECTORS

ARIMA COMPUTER CORP.			
Project Name : CP10-VIA		Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000		Rev : A
Date: Monday, January 18, 1999		Sheet : 19 of 39	


+3VS DEVICE
1.SUPPORT S1 WAKE-UP ONLY, NO NEED TO SUPPORT S3 WAKE-UP
DMT use 48MHz!!
48M/30M SEL
U8A
IRT: COMMON CHOKE ~ MOUNTED
ENABLE OHCI1
DISABLE OHCI2
DAP202U
20-100202-0100
Active Low
Active High (not use)
PARTS(35.7 ohm & 15 K) place near the CHIP!!
DVT to DMT:
VBBRST0: SYS_PWR_GD => -PCIRST
CHANGE -OC#
FAI: Those PAD are for ATE
DO NOT SUPPORT LEGACY !
uPD720100S1-2C
IC uPD720100S1-2C HOST CONTROL FB
10-172010-8700
OHCI-2
OHCI-1
EHCI
DISABLE EEPROM
WHEN SET TO DISABLE EEPROM, PIN "SRCLK" AND "SRDAT" BECOME OUTPUT MODE.
EEPROM NOT USE
NM24C02ULFLEMT8
14-648072-7100
CLOSE TO "PCLK_USB20" & "USB_48MHZ"
USB2.0
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 20 of 39


+3VS/+5VS
+3VS
R645
10K
30-001036-9500
26 WLAN_LED_ON
23 WLAN_PWRON#
WLAN_PWRON#
M517
2N7002
18-007002-9100
5,11,14,16,17,20 A_D[0..31]
A_D[0..31]
WIRELESS ONLY, NOT NEED Vaux
R647
0
CN509
TIP
RING
8PMJ-3
8PMJ-6
8PMJ-7
8PMJ-8
8PMJ-1
8PMJ-2
8PMJ-4
8PMJ-5
Ledl_GmP
Ledl_GmN
Led2_YelP
Led2_YelN
NC
INTB#
5V
3.3V
INTA#
RESERVED
GND
3.3VAUX
CLK
RST#
REQ#
3.3
GNT#
AD_31
AD_29
AD_27
AD_25
C/BE3#
AD_23
AD_21
AD_19
AD_17
C/BE2#
IRDY#
CLKRUN#
SERR#
PREE#
C/BE1#
AD_14
AD_12
AD_10
AD_08
AD_07
AD_05
AD_03
AD_01
AC_SYNC
AC_SDATA_INA
AC_BIT_CLK
AC_PRIMARY#
MOD_AUDIO_MON
AUDIO_GND
SYS_AUDIO_OUT
SYS_AUD_O_G
AUDIO_GND
NC
VCC5A
PME#
AD_30
AD_28
AD_26
AD_24
IDSEL
AD_22
AD_20
PAR
AD_18
AD_16
FRAME#
TRDY#
STOP#
DEVSEL#
AD_15
AD_13
AD_11
AD_09
C/BE0#
AD_06
AD_04
AD_02
AD_00
M66EN
AC_SDATA_OUT
AC_SDATA_INB
AC_RESET#
SYS_AUDIO_IN
SYS_AUD_I_G
AUDIO_GND
MPCIACT#
GND1
GND2
M1
M2
PCICON_AMP
39-906037-0000
-INT_PCI_B
-INT_PCI_A
3VAUX
-PCIRST 2,11,14,16,18,20,22,23
-GNT0 6,17
-PME 23
PCLKMDM
2 PCLKMDM
6,17 -REQ0
A_D30
A_D28
A_D26
A_D24
100
R646
A_D20 5,11,14,16,17,20
A_D22
A_D20
PAR 6,11,14,16,17,20
A_D18
A_D16
-FRAME 6,11,14,16,17,20
-TRDY 6,11,14,16,17,20
-STOP 6,11,14,16,17,20
-DEVSEL 6,11,14,16,17,20
A_D15
A_D13
A_D11
A_D9
C_-BE0 6,11,14,16,17,20
A_D6
A_D4
A_D2
A_D0
6,11,14,16,17,20 C_-BE3
6,11,14,16,17,20 C_-BE2
6,11,14,16,17,20 -IRDY
6,11,14,17,20 -CLKRUN
6,11,14,16,17,20 -SERR
11,14,16,17,20 -PERR
6,11,14,16,17,20 C_-BE1
A_D31
A_D29
A_D27
A_D25
A_D23
A_D21
A_D19
A_D17
A_D14
A_D12
A_D10
A_D8
A_D7
A_D5
A_D3
A_D1
CB535
10PF
CB533
0.1UFB
CB527
0.1UFB
CC502
4.7UF/16V
CB526
0.1UFB
CB537
0.1UFB
CB529
0.1UFB
CB530
0.1UFB
CB532
0.1UFB
CB534
0.1UFB
CB536
0.1UFB
CB528
0.1UFB
CB531
0.1UFB
PLACE CLOSE TO NET "PCLKMDM"
P503
MDCBEEP REMOVED
"39-906037-0000 AMP 1318228-1"
"39-906062-0100 FOXCONN"
It need a GPO to Mini PCI.
The GPO also need conntect to LED
RJ504
5,14,16,17,20 -INTR_A
17,20 -INTR_C
-INT_PCI_A
0JA
PCI INT = -INTR_A
RJ503
11,17,20 -INTR_D
5,11,14,16,17,20 -INTR_B
-INT_PCI_B
0JA
RESERVED INT = -INTR_A
MINI-PCI CONNECTOR
Arima
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 21 of 39

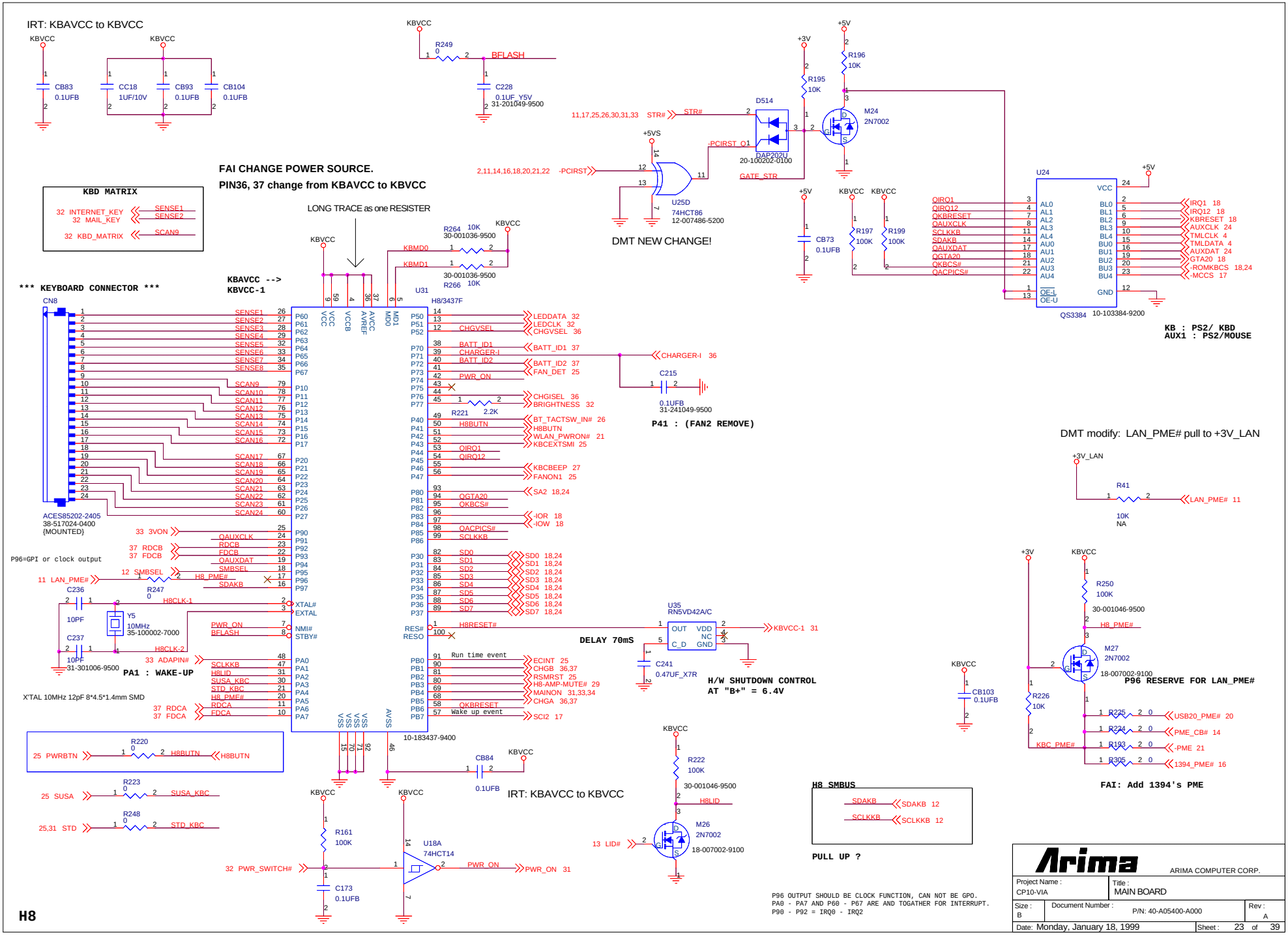




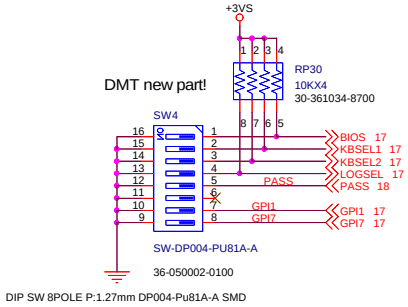
FINGER PRINT, TOUCH SCREEN & GPS

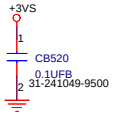
ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD
Size : B	Document Number : P/N: 40-A05400-A000
Rev : A	
Date: Monday, January 18, 1999	Sheet : 22 of 39

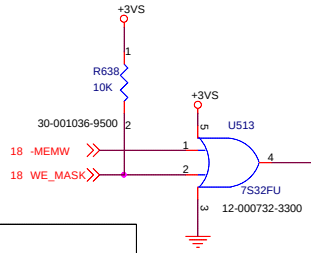

IRT: KBAVCC to KBVCC
KBVCC
CB83 0.1UFB
CC18 1UF/10V
CB93 0.1UFB
CB104 0.1UFB
R249 0
BFLASH
C228 0.1UF_Y5V 31-201049-9500
FAI CHANGE POWER SOURCE.
PIN36, 37 change from KBAVCC to KBVCC
KBD MATRIX
32 INTERNET_KEY
32 MAIL_KEY
32 KBD_MATRIX
SENSE1
SENSE2
SCAN9
LONG TRACE as one RESISTER
R264 10K 30-001036-9500
R266 10K 30-001036-9500
KBMD0
KBMD1
KBAVCC --> KBVCC-1
*** KEYBOARD CONNECTOR ***
CN8
ACES85202-2405
38-517024-0400
{MOUNTED}
U31
H8/3437F
P96=GPI or clock output
11 LAN_PME#
12 SMBSEL
H8_PME#
SDAKB
R247 0
C236 10PF
C237 10PF
Y5 10MHz 35-100002-7000
31-301006-9500
H8CLK-1
H8CLK-2
PA1 : WAKE-UP
X'TAL 10MHz 12pF 8*4.5*1.4mm SMD
33 ADAPIN#
SCLKKB
H8LID
SUSA_KBC
STD_KBC
H8_PME#
RDCA
FDCA
37 RDCA
37 FDCA
33 3VON
QAUXCLK
RDCB
FDCB
QAUXDAT
SMBSEL
PWR_ON
BFLASH
R220 0
25 PWRBTN
H8BUTN
R223 0
25 SUSA
SUSA_KBC
R248 0
25,31 STD
STD_KBC
10-183437-9400
CB84 0.1UFB
IRT: KBAVCC to KBVCC
R161 100K
U18A 74HCT14
32 PWR_SWITCH#
PWR_ON
PWR_ON 31
C173 0.1UFB
H8
DMT NEW CHANGE!
11,17,25,26,30,31,33 STR#
D514 DAP202U 20-100202-0100
M24 2N7002
-PCIRST_Q1
GATE_STR
2,11,14,16,18,20,21,22 -PCIRST
U25D 74HCT86 12-007486-5200
+3V
+5V
+5VS
R196 10K
R195 10K
CB73 0.1UFB
R197 100K
R199 100K
U24
QS3384
10-103384-9200
QIRQ1
QIRQ12
QKBRESET
QAUXCLK
SCLKKB
SDAKB
QAUXDAT
QGTA20
QKBCS#
QACPICS#
IRQ1 18
IRQ12 18
KBRESET 18
AUXCLK 24
TMLCLK 4
TMLDATA 4
AUXDAT 24
GTA20 18
-ROMKBCS 18,24
-MCCS 17
KB : PS2/ KBD
AUX1 : PS2/MOUSE
P41 : (FAN2 REMOVE)
CHARGER-I 36
C215 0.1UFB 31-241049-9500
DMT modify: LAN_PME# pull to +3V_LAN
+3V_LAN
R41 10K NA
LAN_PME# 11
DELAY 70mS
U35 RN5VD42A/C
C241 0.47UF_X7R
KBVCC-1 31
H/W SHUTDOWN CONTROL
AT "B+" = 6.4V
CB103 0.1UFB
R250 100K
30-001046-9500
M27 2N7002
18-007002-9100
P96 RESERVE FOR LAN_PME#
R226 10K
KBC_PME#
USB20_PME# 20
PME_CB# 14
-PME 21
1394_PME# 16
FAI: Add 1394's PME
R222 100K
30-001046-9500
M26 2N7002
18-007002-9100
13 LID#
H8 SMBUS
SDAKB 12
SCLKKB 12
PULL UP ?
P96 OUTPUT SHOULD BE CLOCK FUNCTION, CAN NOT BE GPO.
PA0 - PA7 AND P60 - P67 ARE AND TOGATHER FOR INTERRUPT.
P90 - P92 = IRQ0 - IRQ2
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 23 of 39

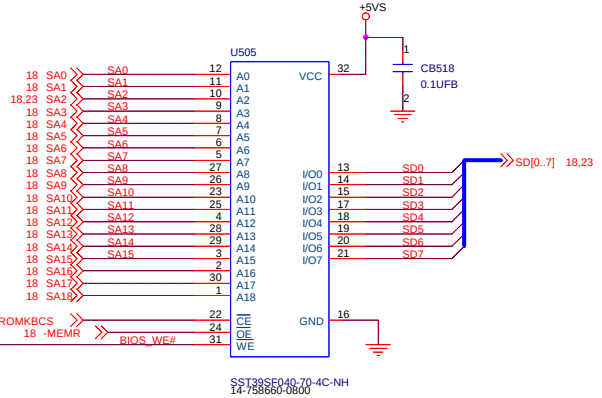
PLCC : FLASHROM
14-758660-0800 : SST39SF040-70-4C-NH
14-758667-1100 : WINBOND W29C040P-90
14-75866H-1100 : MX29F004TQC-90





GPI1 = Finger Print Detect

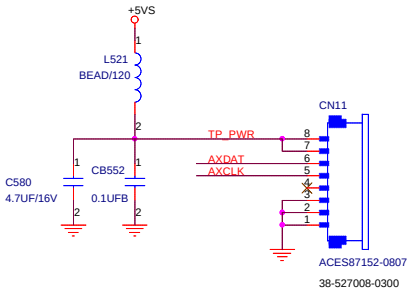


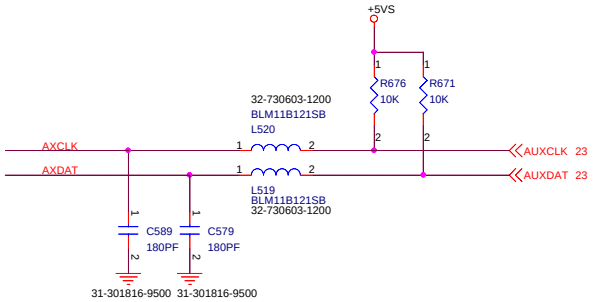


WILL CHANGE TO IC DIRECTLY MOUNTED AFTER MASS PRODUCTION.

SW4-1: BIOS BOOT BOLCK	OFF: Normal; ON: Enable
SW4-2: KEYBOARD SEL-1	OFF = Japan Keyboard
SW4-3: KEYBOARD SEL-2	OFF = Japan Keyboard
SW4-4: LOGO SELECT	OFF: NEC logo; ON: PACKBELL logo
SW4-5: PASSWORD	OFF: Disable; ON: Overwrite Password
SW4-6: NA	
SW4-7: FINGER PRINT DETECT	OFF: No Finger Print; ON: Finger Print Function
SW4-8: GPI / RESERVE	OFF: Lavia (Consumer); ON: VersaPro (Commercial)

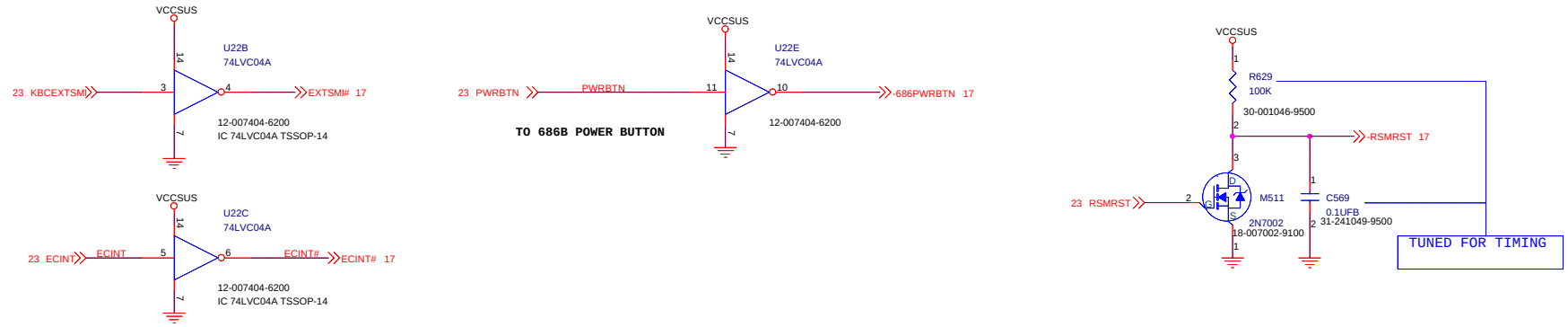
DMT MODIFT LIST
ADD 8 POLES DIP SW



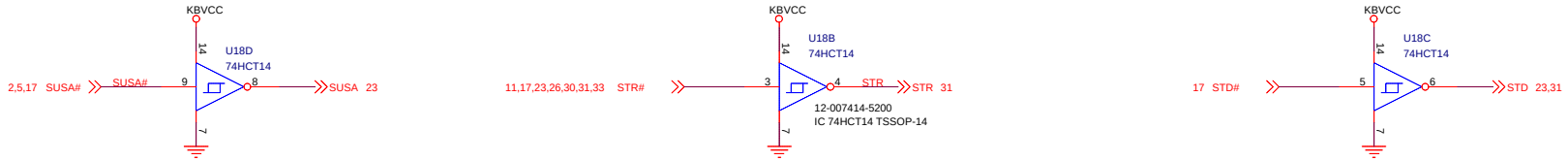


BIOS & TOUCHPAD

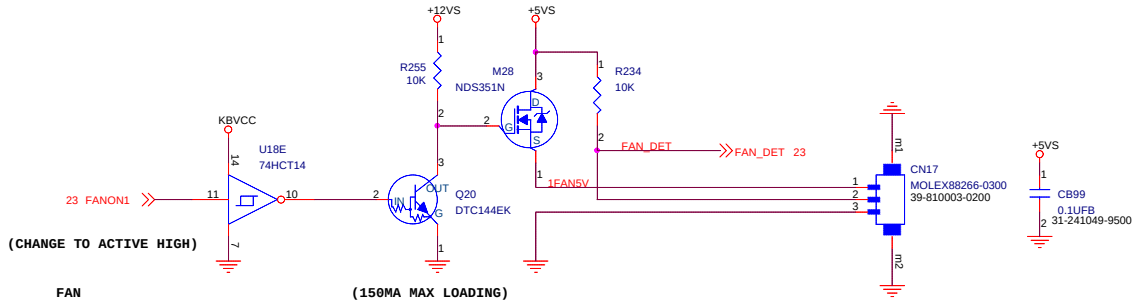
Arima	ARIMA COMPUTER CORP.	
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 24 of 39	



H8



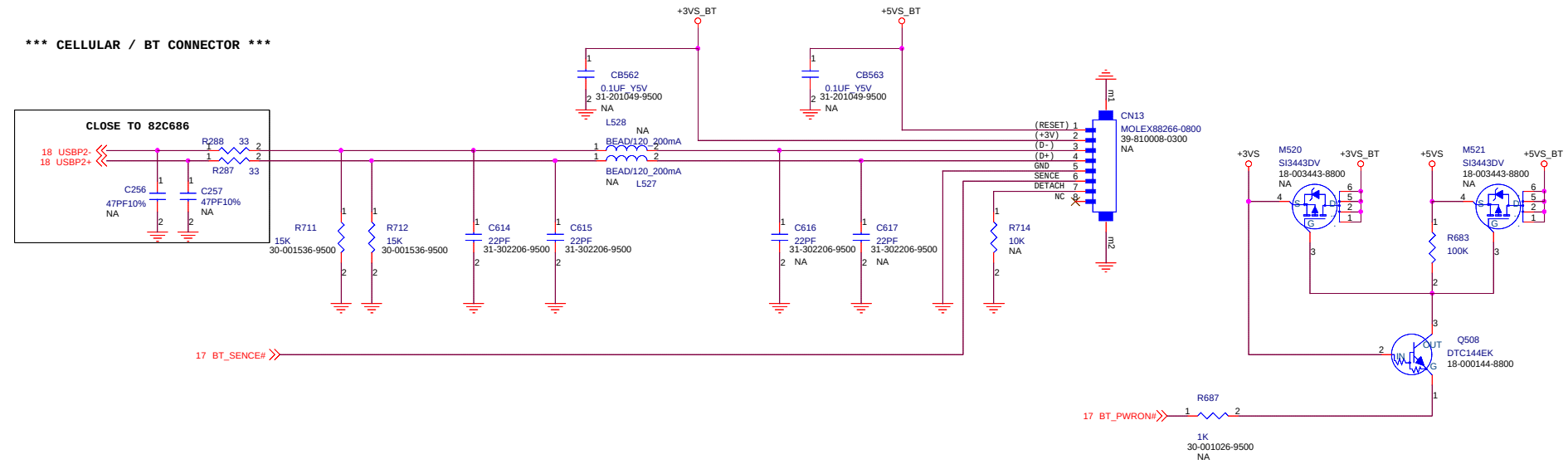
S.B.



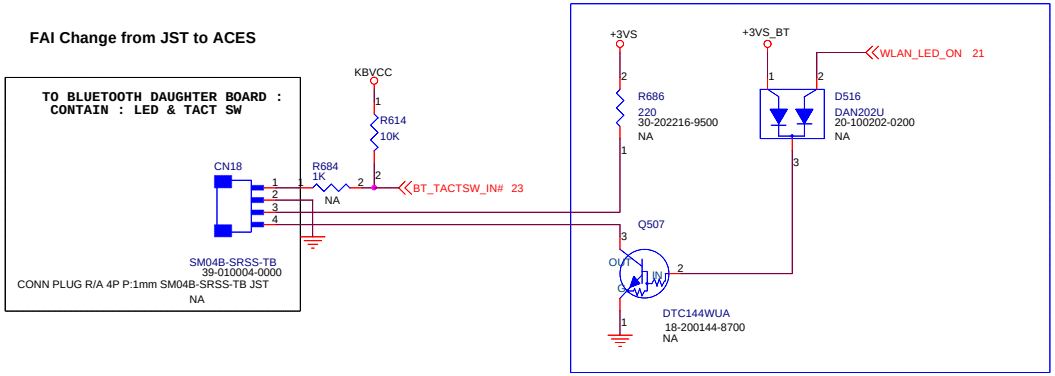
FAN & LOGIC

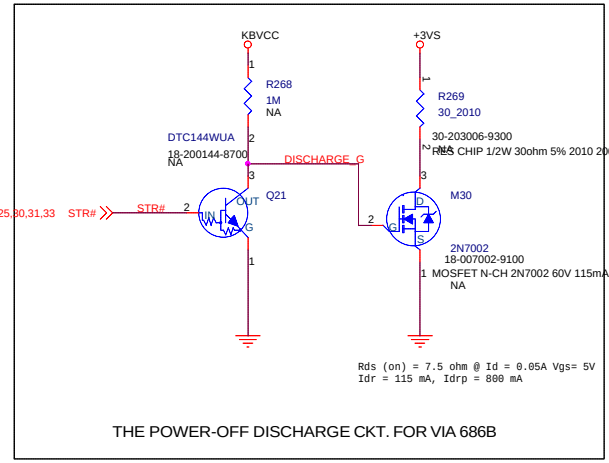
ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 25 of 39	



FAI Change from JST to ACES



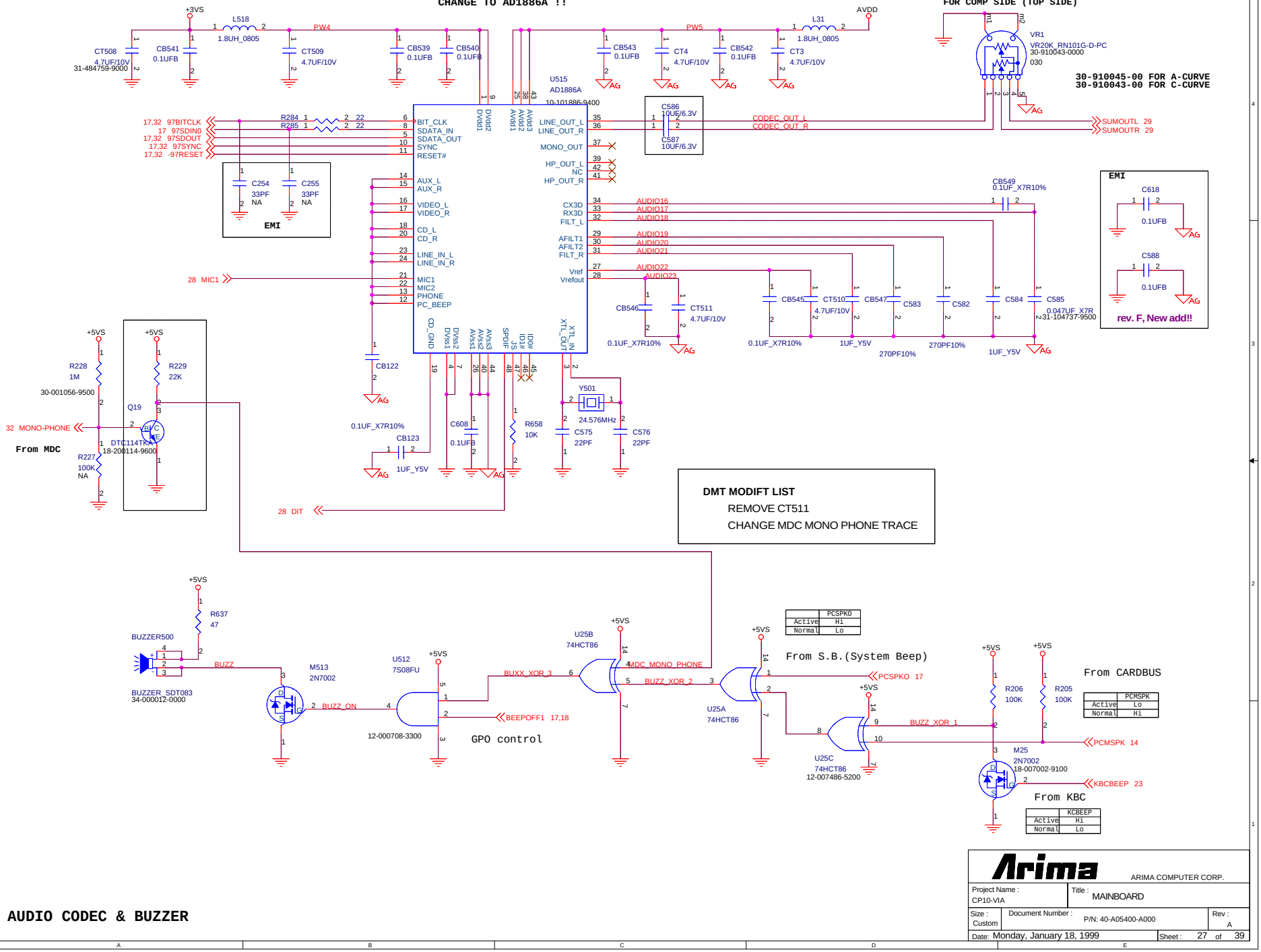


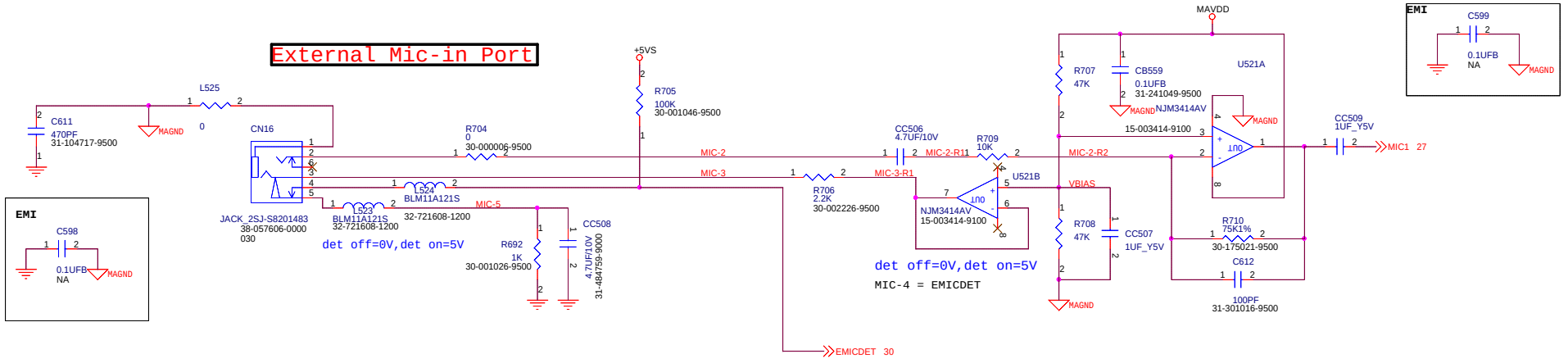
THE POWER-OFF DISCHARGE CKT. FOR VIA 686B

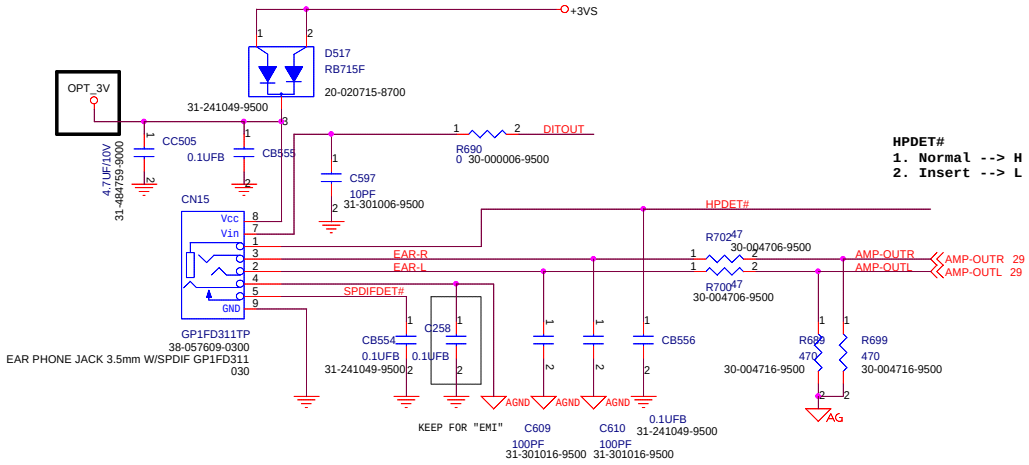
FOR DMT. NEW! 3V DISCHARGE CKT.
FOR FAI.REMOVE.

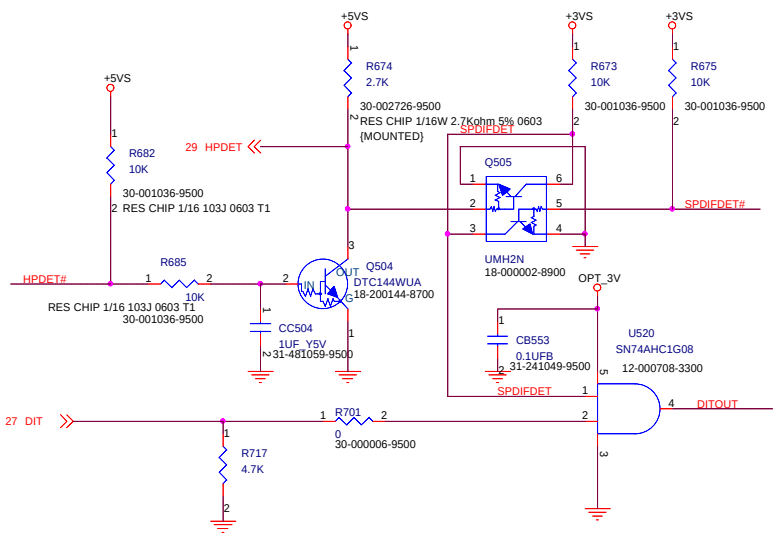
BLUETOOTH and 3V DISCHARGE CKT.

Arima	ARIMA COMPUTER CORP.	
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 26 of 39	


CHANGE TO AD1886A !!
FOR COMP SIDE (TOP SIDE)
30-910045-00 FOR A-CURVE
30-910043-00 FOR C-CURVE
U515
AD1886A
10-101886-9400
VR1
VR20K_RN101G-D-PC
30-910043-0000
EMI
rev. F, New add!!
From MDC
From S.B.(System Beep)
From CARDBUS
From KBC
GPO control
DMT MODIFT LIST
REMOVE CT511
CHANGE MDC MONO PHONE TRACE
AUDIO CODEC & BUZZER
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAINBOARD
Size : Custom
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 27 of 39

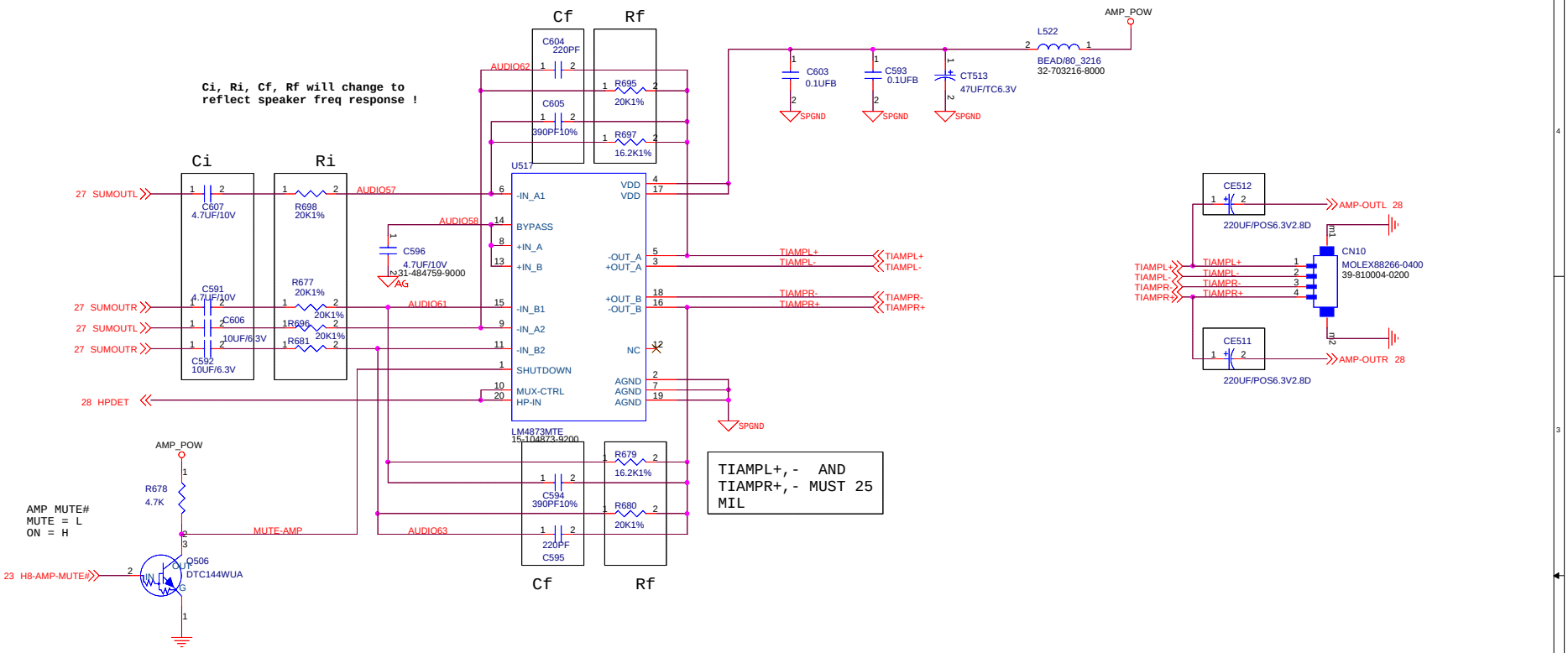






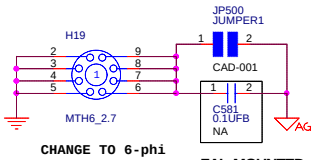
AUDIO JACK

ARIMA COMPUTER CORP.		
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 28 of 39	



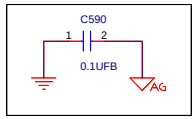
TAKE CARE FOR LAYOUT!!!

MAKE ONE POINT CONTACT



CHANGE TO 6-phi

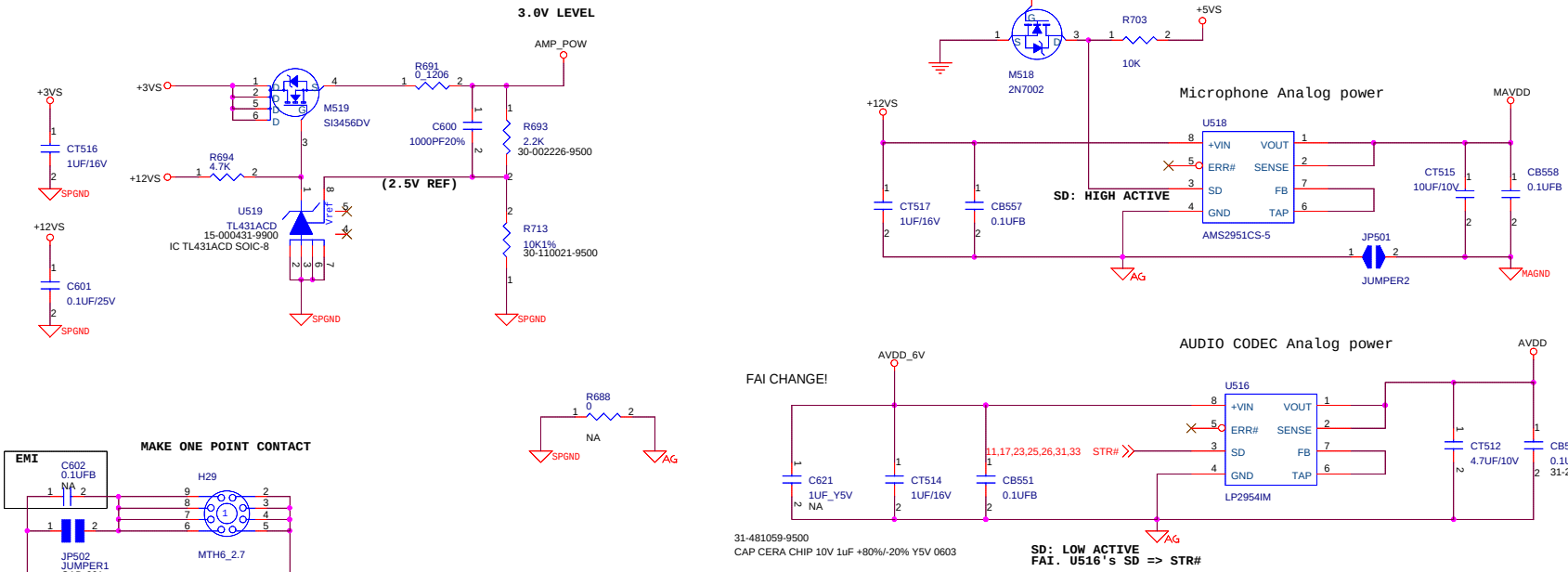
FAI: MOUNTED => NA



rev. F, New add!!

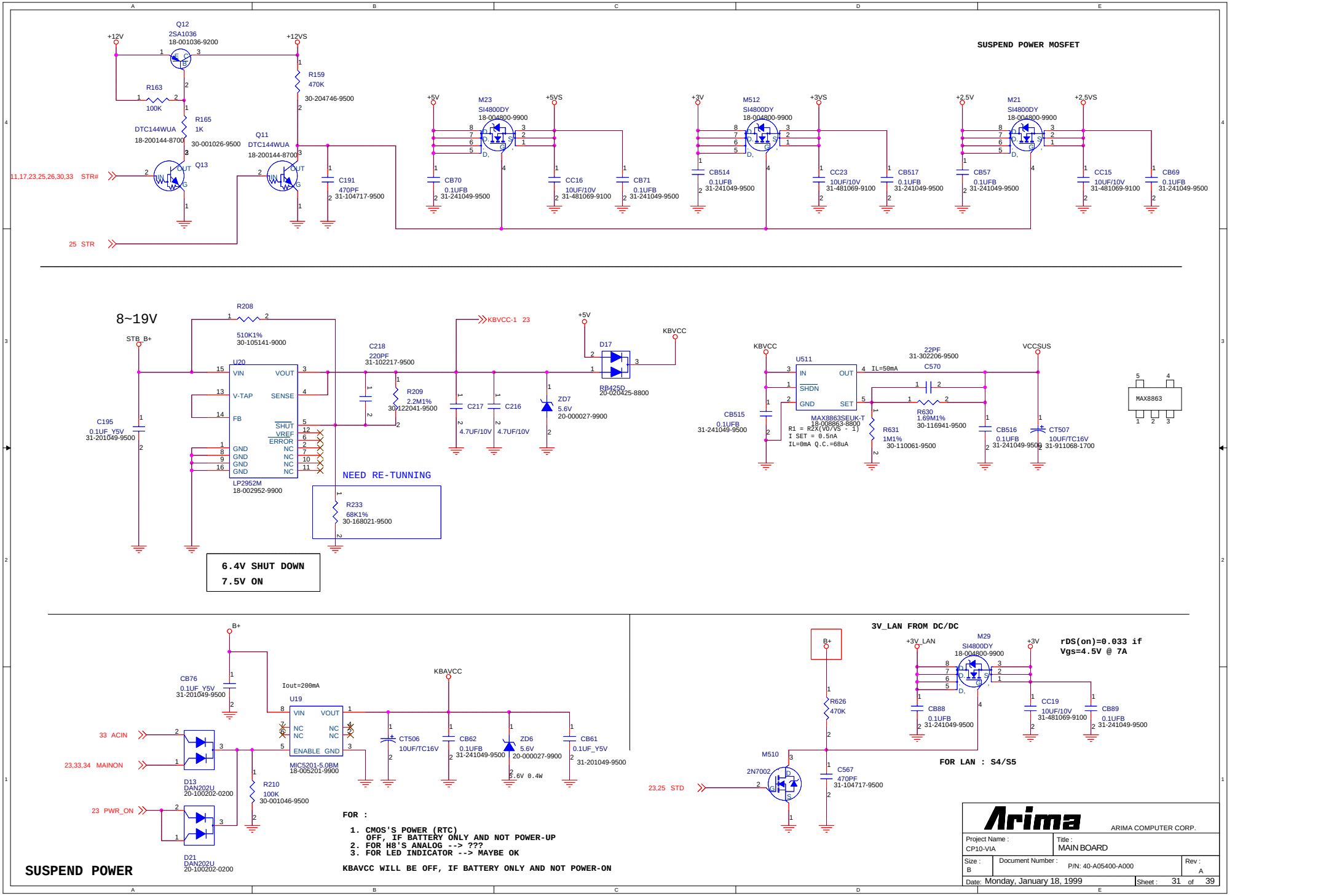
AUDIO AMP & AUDIO POWER

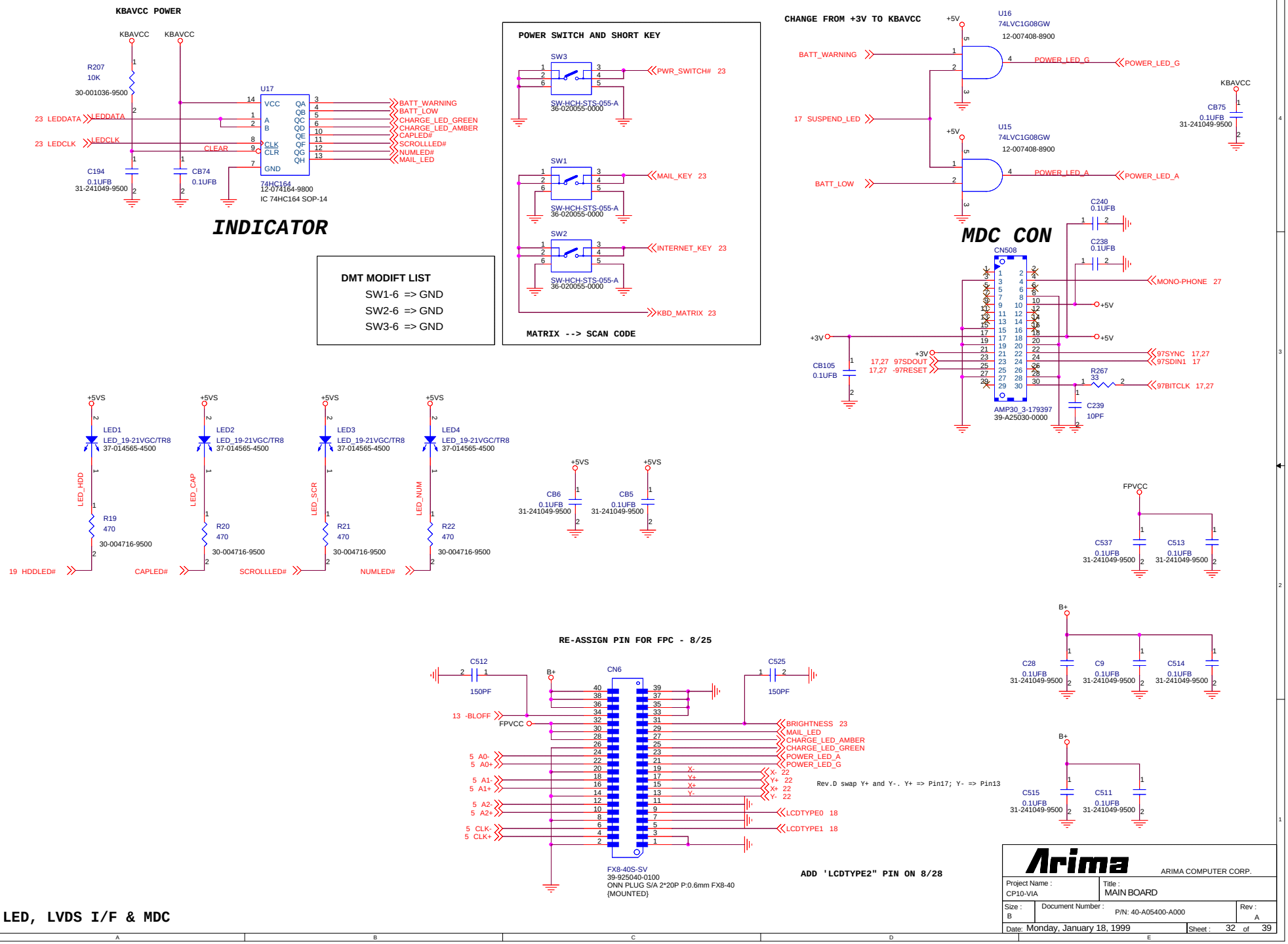
ARIMA COMPUTER CORP.			
Project Name : CP10-VIA	Title : MAIN BOARD		
Size : Custom	Document Number : P/N: 40-A05400-A000		Rev : A
Date: Monday, January 18, 1999		Sheet : 29 of 39	

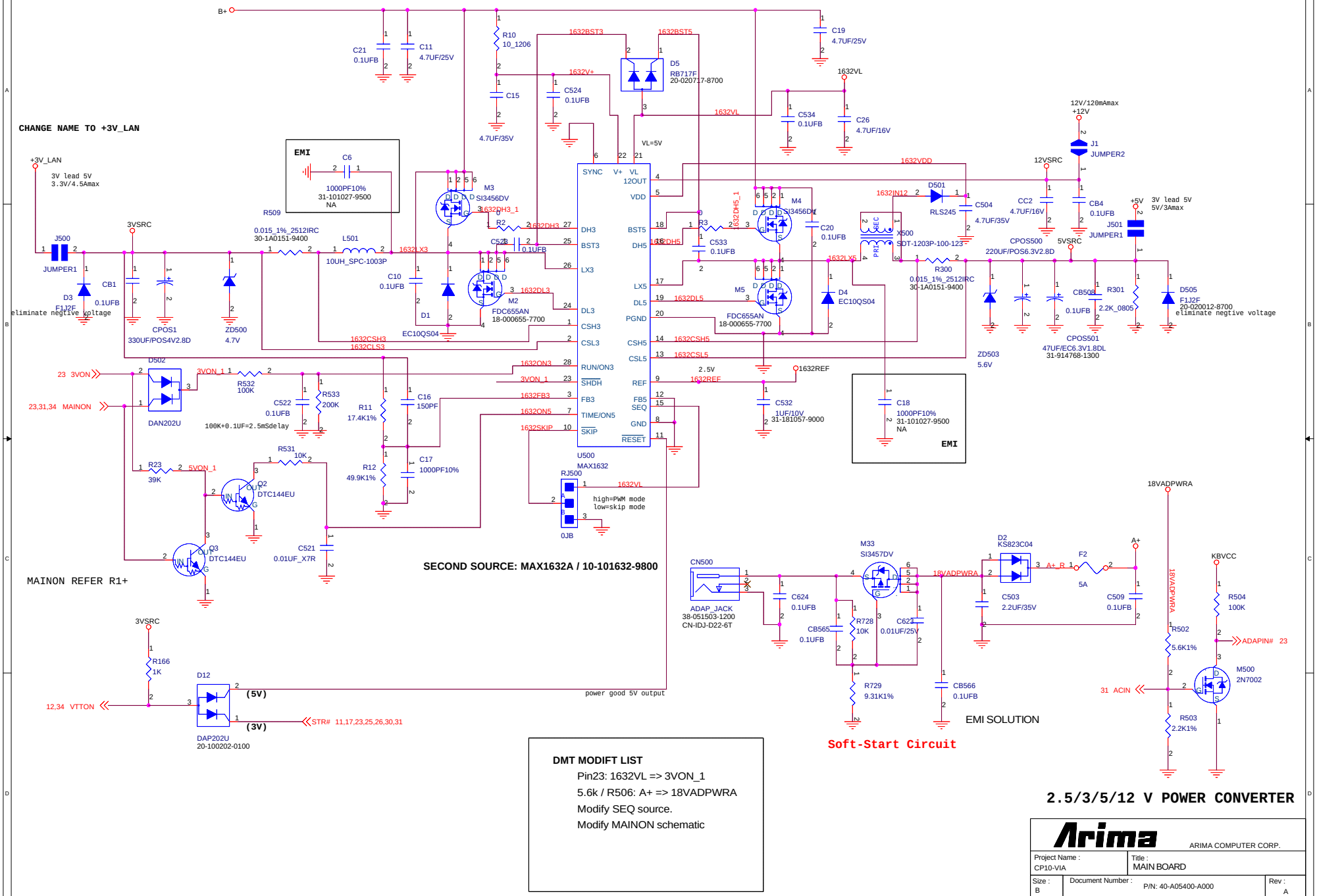


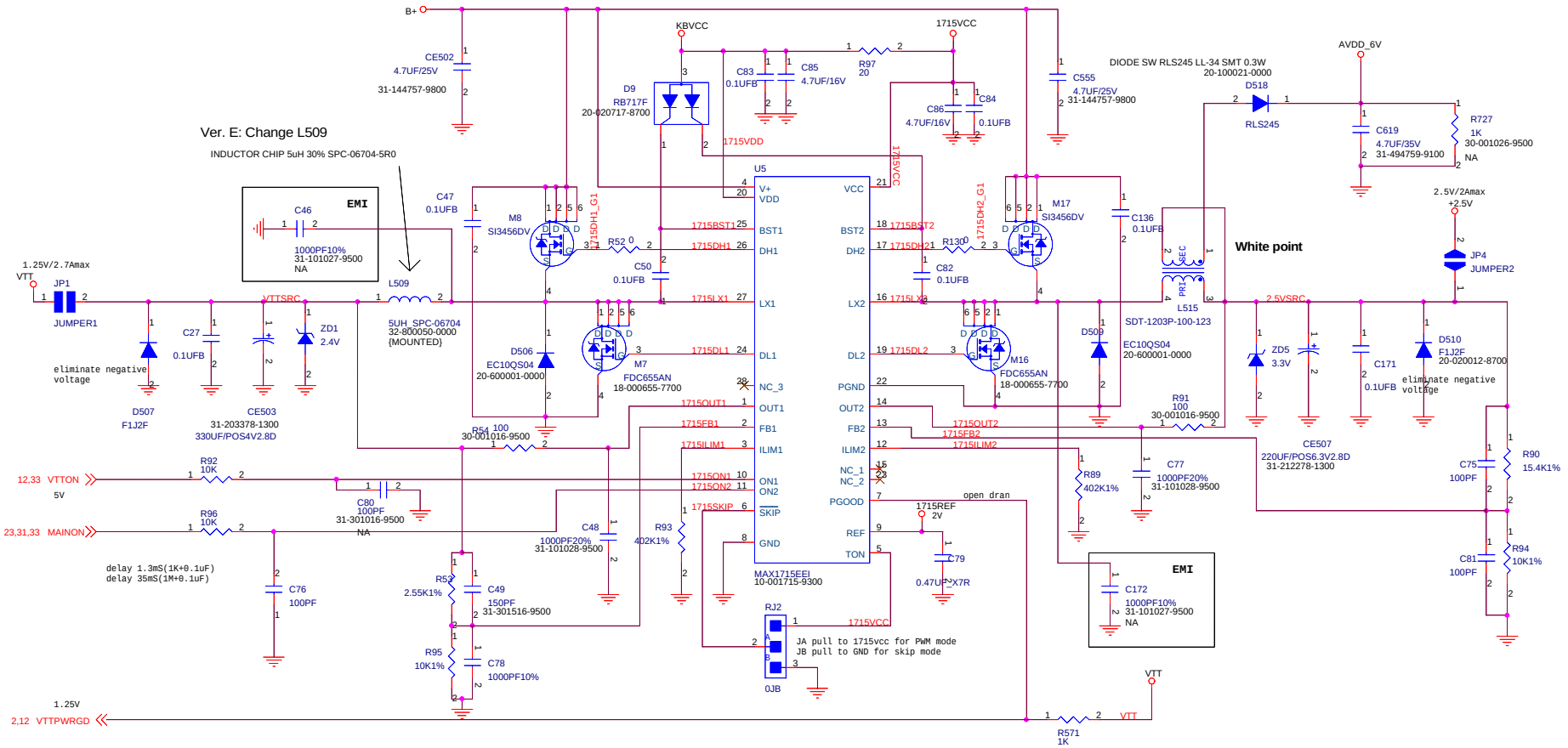
AUDIO POWER

Arima	ARIMA COMPUTER CORP.	
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 30 of 39	

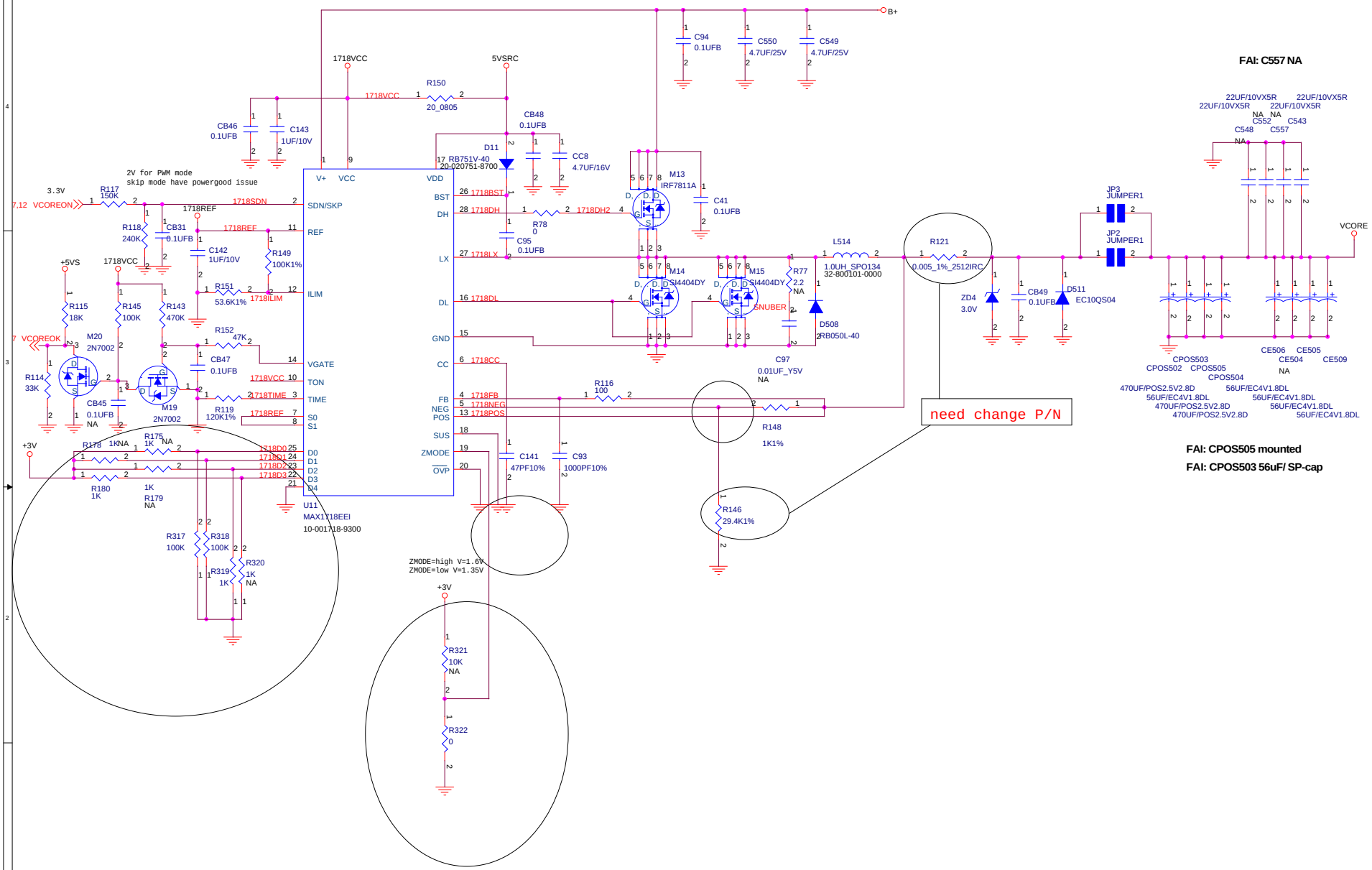

SUSPEND POWER MOSFET
Q12
2SA1036
18-001036-9200
+12V
+12VS
R159
470K
30-204746-9500
R163
100K
R165
1K
DTC144WUA
18-200144-8700
30-001026-9500
Q13
Q11
DTC144WUA
18-200144-8700
11,17,23,25,26,30,33 STR#
25 STR
C191
470PF
31-104717-9500
+5V
M23
SI4800DY
18-004800-9900
+5VS
CB70
0.1UFB
31-241049-9500
CC16
10UF/10V
31-481069-9100
CB71
0.1UFB
31-241049-9500
+3V
M512
SI4800DY
18-004800-9900
+3VS
CB514
0.1UFB
31-241049-9500
CC23
10UF/10V
31-481069-9100
CB517
0.1UFB
31-241049-9500
+2.5V
M21
SI4800DY
18-004800-9900
+2.5VS
CB57
0.1UFB
31-241049-9500
CC15
10UF/10V
31-481069-9100
CB69
0.1UFB
31-241049-9500
8~19V
STB_B+
R208
510K1%
30-105141-9000
U20
VIN
VOUT
V-TAP
SENSE
FB
SHUT
VREF
ERROR
GND
NC
LP2952M
18-002952-9900
C195
0.1UF_Y5V
31-201049-9500
C218
220PF
31-102217-9500
R209
2.2M1%
30-122041-9500
KBVCC-1 23
C217
4.7UF/10V
C216
4.7UF/10V
ZD7
5.6V
20-000027-9900
D17
RB425D
20-020425-8800
KBVCC
NEED RE-TUNNING
R233
68K1%
30-168021-9500
6.4V SHUT DOWN
7.5V ON
KBVCC
U511
IN
OUT
SHDN
GND
SET
MAX8863SEUK-T
18-008863-8800
R1 = R2X(VO/VS - 1)
I SET = 0.5nA
IL=0mA Q.C.=68uA
IL=50mA
CB515
0.1UFB
31-241049-9500
22PF
31-302206-9500
C570
R630
1.69M1%
30-116941-9500
R631
1M1%
30-110061-9500
CB516
0.1UFB
31-241049-9500
VCCSUS
CT507
10UF/TC16V
31-911068-1700
MAX8863
B+
CB76
0.1UF_Y5V
31-201049-9500
Iout=200mA
U19
VIN
VOUT
NC
ENABLE
GND
MIC5201-5.0BM
18-005201-9900
KBAVCC
CT506
10UF/TC16V
CB62
0.1UFB
31-241049-9500
ZD6
5.6V
20-000027-9900
5.6V 0.4W
CB61
0.1UF_Y5V
31-201049-9500
33 ACIN
23,33,34 MAINON
23 PWR_ON
D13
DAN202U
20-100202-0200
R210
100K
30-001046-9500
D21
DAN202U
20-100202-0200
SUSPEND POWER
FOR :
1. CMOS'S POWER (RTC)
OFF, IF BATTERY ONLY AND NOT POWER-UP
2. FOR H8'S ANALOG --> ???
3. FOR LED INDICATOR --> MAYBE OK
KBAVCC WILL BE OFF, IF BATTERY ONLY AND NOT POWER-ON
3V_LAN FROM DC/DC
B+
R626
470K
M510
2N7002
23,25 STD
C567
470PF
31-104717-9500
+3V_LAN
M29
SI4800DY
18-004800-9900
+3V
rDS(on)=0.033 if
Vgs=4.5V @ 7A
CB88
0.1UFB
31-241049-9500
CC19
10UF/10V
31-481069-9100
CB89
0.1UFB
31-241049-9500
FOR LAN : S4/S5
Arima
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 31 of 39


KBAVCC POWER
KBAVCC
KBAVCC
R207
10K
30-001036-9500
23 LEDDATA
LEDDATA
23 LEDCLK
LEDCLK
CLEAR
C194
0.1UFB
31-241049-9500
CB74
0.1UFB
U17
VCC
A
B
CLK
CLR
GND
QA
QB
QC
QD
QE
QF
QG
QH
BATT_WARNING
BATT_LOW
CHARGE_LED_GREEN
CHARGE_LED_AMBER
CAPLED#
SCROLLLED#
NUMLED#
MAIL_LED
74HC164
12-074164-9800
IC 74HC164 SOP-14
INDICATOR
POWER SWITCH AND SHORT KEY
SW3
PWR_SWITCH# 23
SW-HCH-STS-055-A
36-020055-0000
SW1
MAIL_KEY 23
SW-HCH-STS-055-A
36-020055-0000
SW2
INTERNET_KEY 23
SW-HCH-STS-055-A
36-020055-0000
KBD_MATRIX 23
MATRIX --> SCAN CODE
DMT MODIFT LIST
SW1-6 => GND
SW2-6 => GND
SW3-6 => GND
CHANGE FROM +3V TO KBAVCC
+5V
U16
74LVC1G08GW
12-007408-8900
BATT_WARNING
POWER_LED_G
POWER_LED_G
17 SUSPEND_LED
U15
74LVC1G08GW
12-007408-8900
BATT_LOW
POWER_LED_A
POWER_LED_A
KBAVCC
CB75
0.1UFB
31-241049-9500
MDC CON
C240
0.1UFB
C238
0.1UFB
CN508
MONO-PHONE 27
+5V
+5V
+3V
+3V
17,27 97SDOUT
17,27 -97RESET
97SYNC 17,27
97SDIN1 17
CB105
0.1UFB
R267
33
97BITCLK 17,27
C239
10PF
AMP30_3-179397
39-A25030-0000
+5VS
LED1
LED_19-21VGC/TR8
37-014565-4500
LED2
LED_19-21VGC/TR8
37-014565-4500
LED3
LED_19-21VGC/TR8
37-014565-4500
LED4
LED_19-21VGC/TR8
37-014565-4500
LED_HDD
LED_CAP
LED_SCR
LED_NUM
R19
470
R20
470
R21
470
R22
470
30-004716-9500
19 HDDLED#
CAPLED#
SCROLLLED#
NUMLED#
CB6
0.1UFB
31-241049-9500
CB5
0.1UFB
31-241049-9500
FPVCC
C537
0.1UFB
31-241049-9500
C513
0.1UFB
31-241049-9500
RE-ASSIGN PIN FOR FPC - 8/25
C512
150PF
B+
CN6
C525
150PF
13 -BLOFF
FPVCC
5 A0-
5 A0+
5 A1-
5 A1+
5 A2-
5 A2+
5 CLK-
5 CLK+
BRIGHTNESS 23
MAIL_LED
CHARGE_LED_AMBER
CHARGE_LED_GREEN
POWER_LED_A
POWER_LED_G
X- 22
Y+ 22
X+ 22
Y- 22
LCDTYPE0 18
LCDTYPE1 18
Rev.D swap Y+ and Y-. Y+ => Pin17; Y- => Pin13
FX8-40S-SV
39-925040-0100
ONN PLUG S/A 2*20P P:0.6mm FX8-40
{MOUNTED}
ADD 'LCDTYPE2" PIN ON 8/28
B+
C28
0.1UFB
31-241049-9500
C9
0.1UFB
31-241049-9500
C514
0.1UFB
31-241049-9500
C515
0.1UFB
31-241049-9500
C511
0.1UFB
31-241049-9500
LED, LVDS I/F & MDC
Arima
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 32 of 39

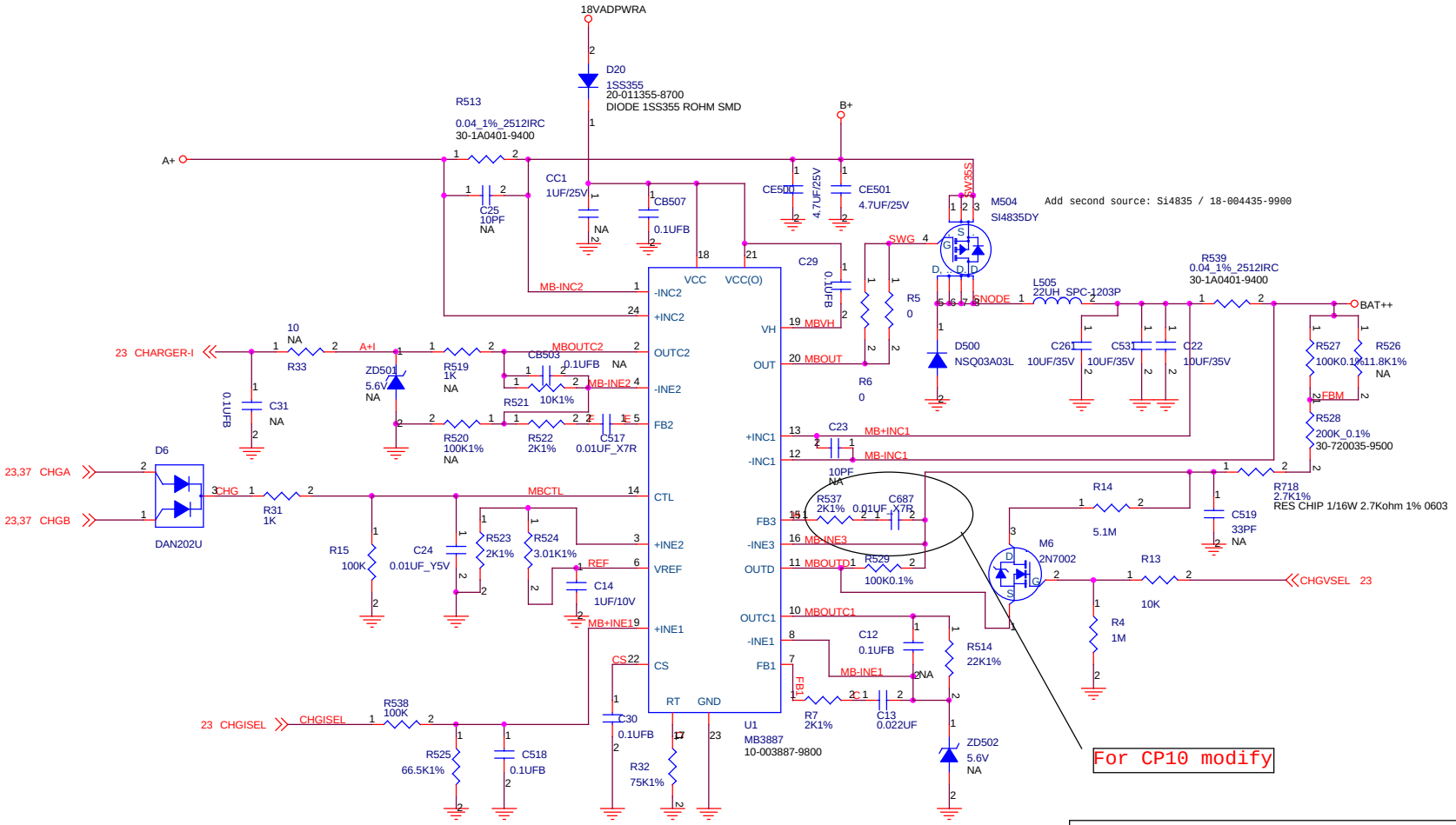

CHANGE NAME TO +3V_LAN
+3V_LAN
3V lead 5V
3.3V/4.5Amax
J500
JUMPER1
CB1
0.1UFB
D3
F1J2F
eliminate negtive voltage
3VSRC
CPOS1
330UF/POS4V2.8D
ZD500
4.7V
EMI
C6
1000PF10%
31-101027-9500
NA
R509
0.015_1%_2512IRC
30-1A0151-9400
L501
10UH_SPC-1003P
1632LX3
C10
0.1UFB
D1
EC10QS04
M3
SI3456DV
1632DH3_1
R2
1632DH3
C523
0.1UFB
M2
FDC655AN
18-000655-7700
1632DL3
1632CSH3
1632CSL3
B+
C21
0.1UFB
C11
4.7UF/25V
R10
10_1206
C15
4.7UF/35V
1632BST3
1632BST5
D5
RB717F
20-020717-8700
1632V+
C524
0.1UFB
C19
4.7UF/25V
1632VL
C534
0.1UFB
C26
4.7UF/16V
VL=5V
1632VDD
SYNC
V+
VL
12OUT
VDD
DH3
BST3
LX3
DL3
CSH3
CSL3
RUN/ON3
SHDH
FB3
TIME/ON5
SKIP
BST5
DH5
LX5
DL5
PGND
CSH5
CSL5
REF
FB5
SEQ
GND
RESET
U500
MAX1632
1632DH5_1
1632DH5
M4
SI3456DV
C20
0.1UFB
R3
C533
0.1UFB
M5
FDC655AN
18-000655-7700
D4
EC10QS04
1632LX5
1632DL5
1632CSH5
1632CSL5
2.5V
1632REF
C532
1UF/10V
31-181057-9000
1632REF
C18
1000PF10%
31-101027-9500
NA
EMI
1632IN12
D501
RLS245
C504
4.7UF/35V
X500
SDT-1203P-100-123
R300
0.015_1%_2512IRC
30-1A0151-9400
12V/120mAmax
+12V
J1
JUMPER2
12VSRC
CC2
4.7UF/16V
CB4
0.1UFB
CPOS500
220UF/POS6.3V2.8D
5VSRC
+5V
3V lead 5V
5V/3Amax
J501
JUMPER1
CB508
0.1UFB
R301
2.2K_0805
CPOS501
47UF/EC6.3V1.8DL
31-914768-1300
D505
F1J2F
20-020012-8700
eliminate negtive voltage
ZD503
5.6V
23 3VON
D502
3VON_1
R532
100K
23,31,34 MAINON
DAN202U
C522
0.1UFB
R533
200K
100K+0.1UF=2.5mSdelay
R11
17.4K1%
C16
150PF
R12
49.9K1%
C17
1000PF10%
1632ON3
1632FB3
1632ON5
1632SKIP
RJ500
high=PWM mode
low=skip mode
0JB
1632VL
R531
10K
R23
39K
5VON_1
Q2
DTC144EU
Q3
DTC144EU
C521
0.01UF_X7R
MAINON REFER R1+
SECOND SOURCE: MAX1632A / 10-101632-9800
3VSRC
R166
1K
D12
(5V)
(3V)
12,34 VTTON
STR# 11,17,23,25,26,30,31
DAP202U
20-100202-0100
power good 5V output
CN500
ADAP_JACK
38-051503-1200
CN-IDJ-D22-6T
C624
0.1UFB
M33
SI3457DV
18VADPWRA
D2
KS823C04
F2
5A
A+
A+_R
C503
2.2UF/35V
C509
0.1UFB
CB565
0.1UFB
R728
10K
C623
0.01UF/25V
R729
9.31K1%
CB566
0.1UFB
EMI SOLUTION
Soft-Start Circuit
18VADPWRA
KBVCC
R504
100K
ADAPIN# 23
R502
5.6K1%
M500
2N7002
31 ACIN
R503
2.2K1%
DMT MODIFT LIST
Pin23: 1632VL => 3VON_1
5.6k / R506: A+ => 18VADPWRA
Modify SEQ source.
Modify MAINON schematic
2.5/3/5/12 V POWER CONVERTER
Arima
ARIMA COMPUTER CORP.
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 33 of 39



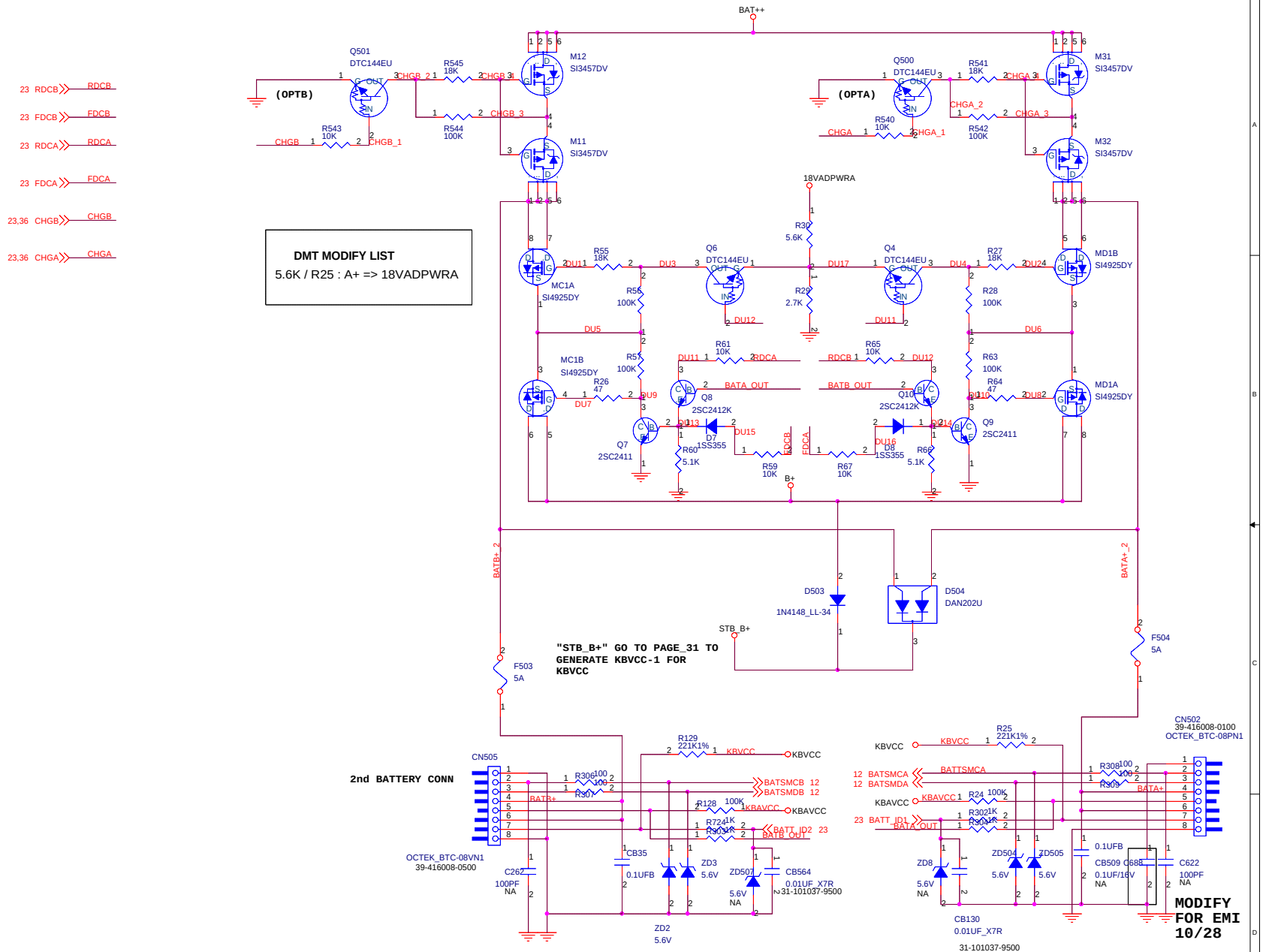
ARIMA COMPUTER CORP.			
Project Name : CP10-VIA	Title : MAIN BOARD		
Size : Custom	Document Number : P/N: 40-A05400-A000		Rev : A
Date: Monday, January 18, 1999		Sheet : 34 of 39	



ARIMA COMPUTER CORP.		
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 35 of 39	



ARIMA COMPUTER CORP.		
Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 36 of 39	


BAT++
Q501
DTC144EU
(OPTB)
R545
18K
R544
100K
R543
10K
CHGB_2
CHGB_3
CHGB_1
M12
SI3457DV
M11
SI3457DV
Q500
DTC144EU
(OPTA)
R541
18K
R542
100K
R540
10K
CHGA_2
CHGA_3
CHGA_1
M31
SI3457DV
M32
SI3457DV
18VADPWRA
R30
5.6K
R29
2.7K
Q6
DTC144EU
Q4
DTC144EU
R55
18K
R56
100K
R27
18K
R28
100K
MC1A
SI4925DY
MD1B
SI4925DY
MC1B
SI4925DY
MD1A
SI4925DY
R57
100K
R63
100K
R61
10K
R65
10K
R26
47
R64
47
Q8
2SC2412K
Q10
2SC2412K
Q7
2SC2411
Q9
2SC2411
D7
1SS355
D8
1SS355
R60
5.1K
R66
5.1K
R59
10K
R67
10K
B+
DMT MODIFY LIST
5.6K / R25 : A+ => 18VADPWRA
23 RDCB
23 FDCB
23 RDCA
23 FDCA
23,36 CHGB
23,36 CHGA
BATB+_2
BATA+_2
D503
1N4148_LL-34
D504
DAN202U
STB_B+
"STB_B+" GO TO PAGE_31 TO GENERATE KBVCC-1 FOR KBVCC
F503
5A
F504
5A
2nd BATTERY CONN
CN505
OCTEK_BTC-08VN1
39-416008-0500
R129
221K1%
R306
100
R307
R128
100K
R724
1K
R303
1K
KBVCC
KBAVCC
BATSMCB 12
BATSMDB 12
BATB+
BATB_OUT
BATT_ID2 23
CB35
0.1UFB
ZD3
5.6V
ZD507
5.6V
NA
CB564
0.01UF_X7R
31-101037-9500
C262
100PF
NA
ZD2
5.6V
R25
221K1%
R24
100K
R302
1K
R301
1K
BATTSMCA
BATSMCA 12
BATSMDA 12
BATA+
BATA_OUT
BATT_ID1 23
CN502
39-416008-0100
OCTEK_BTC-08PN1
ZD8
5.6V
NA
ZD504
5.6V
ZD505
5.6V
CB509
0.1UFB
C688
0.1UF/16V
NA
C622
100PF
NA
CB130
0.01UF_X7R
31-101037-9500
MODIFY FOR EMI 10/28
Arima
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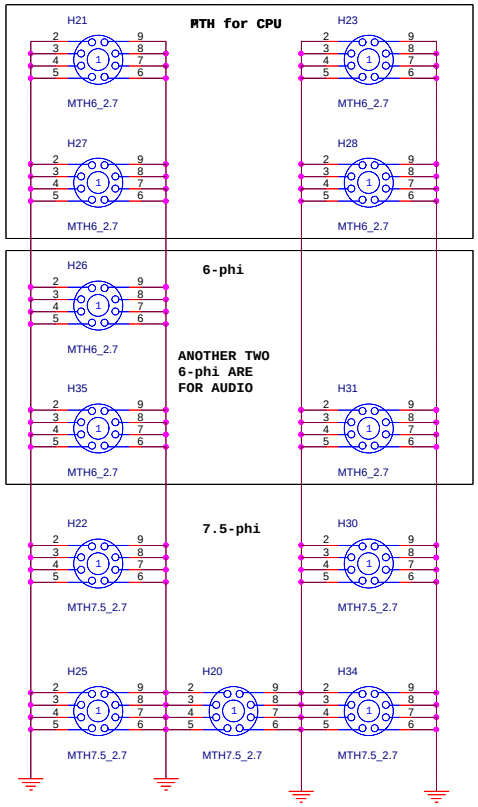
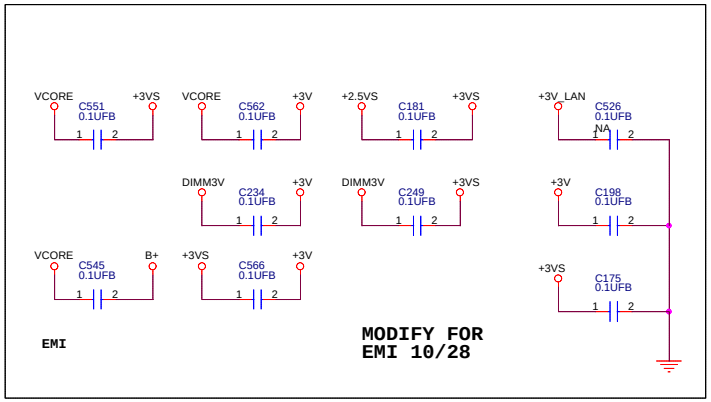
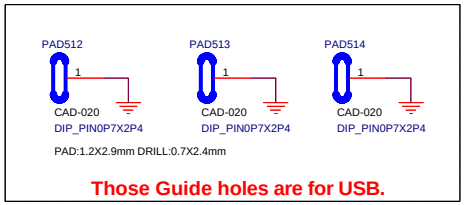
Project Name : CP10-VIA
Title : MAIN BOARD
Size : B
Document Number : P/N: 40-A05400-A000
Rev : A
Date: Monday, January 18, 1999
Sheet : 37 of 39

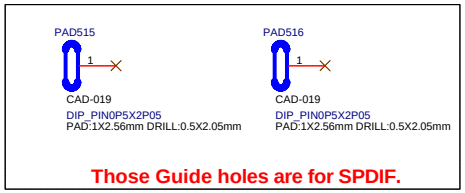
Hole (7.5X2.7) X5
Hole (6.0X2.7) X5 for CPU
Hole (6.0X2.7) X5 for SYSTEM

Near CPU's hole, Add one Guide hole!!!!

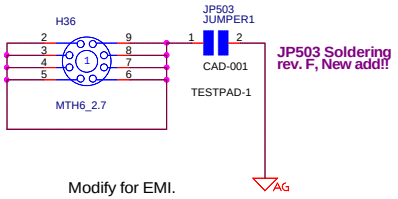




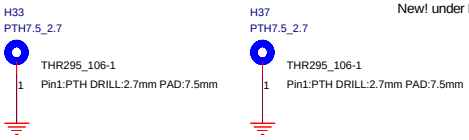


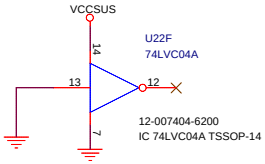


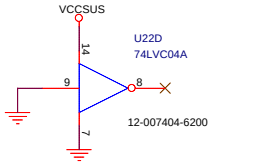
New! near HDD connector.

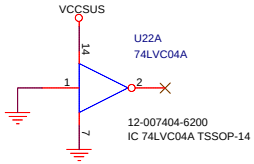


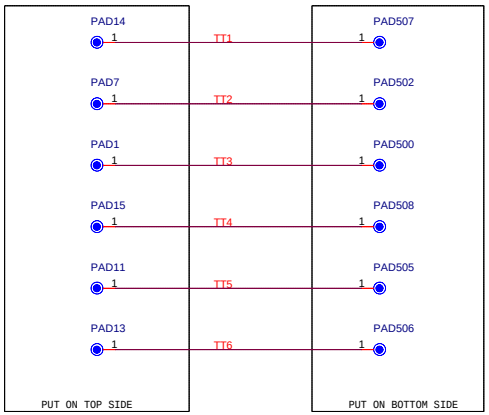
New! under MDC











EVENLY SPREAD AROUND THE PCB

ONE MTH_6/2.7 ON SCH29
ONE MTH_6/2.7 ON SCH30

MOUNT HOLE

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Project Name : CP10-VIA	Title : MAIN BOARD	
Size : B	Document Number : P/N: 40-A05400-A000	Rev : A
Date: Monday, January 18, 1999	Sheet : 38 of 39	

A00: INITIAL DESIGN ON MAY 7, 2002

MODIFY LIST:

1. Lead free PCB gerber files must send to Ger Chen (陳德吉) before making stencil.

2. Lead free PCB is required to plate with gold.
(PCB要鍍金處理)

3. "Clock Generator" to CPU clock signal (HCLK_C0) changes from pin-44 (clock gen.) to pin-47. (BIOS modified the function already. 2002/5/23)

4. "VCOREOK" signal level is raising two steps for "VIAC3_PWRGD". First step is 0V to 0.7V, and the second step is 0.7V to 2.5V. The solution to the bug is as following:

(a) Page 7 some components need to be changed.
(b) Remove D14 (diode), and R759 (330 Ohm)
(c) Add an BJT 3904 (P-channel)
(d) B -> "SYS-_PWR_GD" signal, C -> connecting 1K Ohm and pulling to 2.5VS, E -> connecting "VIAC3_PWRGD" signal and pulling 10K Ohm to ground.
(e) Remove R730 (0 Ohm)
(f) Add U523 (7417 single gate buffer)
(g) Short U30 pin 9 and 10 (short "7417_VCOREOK" and "VRPWRGD") for AND gate output to high
(h) Remove R238 (0 Ohm)
(i) Add R240 (0 Ohm)

5. Intel CPU and VIA CPU have different dimension; therefore, their heat sinks have different types.
2002/5/28
6. BT1 and BT1+ have three USB ports (mechanical design), but BT1V has two USB ports (mechanical design).
2002/7/9

6.a.Pg.5
Add another 0 ohm resistor between GNDVGA and GND-------1pcs.

b.Pg.13
Add a 0.1uF bypass cap to CN5 Pin1.

c.Pg.37
CN502 Pin1 change to N.A from Net GND

d.Pg.37
Add a 0.1uF(BOM list N.A) bypass cap between CN502 Pin1 and GND

e.Pg.38
C175,C198,C181,C249,C234,C545,C551,C562,C566 change to 0.1uF from N.A

2002/10/28 EMI

HISTORY

ARIMA COMPUTER CORP.

Project Name : CP10-VIA	Title : MAIN BOARD		
Size : B	Document Number : P/N: 40-A05400-A000		Rev : A
Date: Monday, January 18, 1999		Sheet : 39 of 39	