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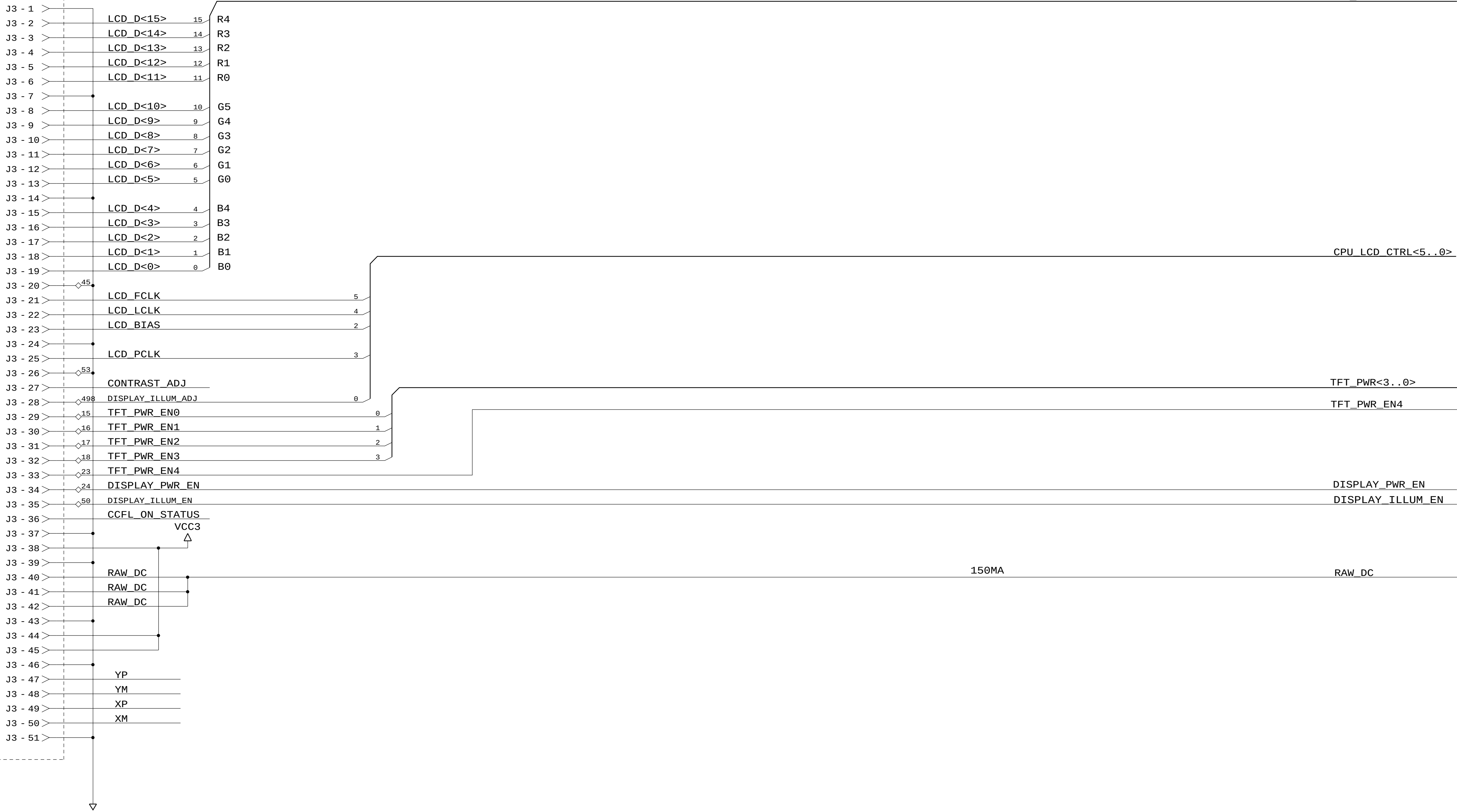


| REVISIONS |      |     |             |      |    |       |
|-----------|------|-----|-------------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |

# MTM INTERFACE

## CONNECTOR TO MTM

50-12100-1010

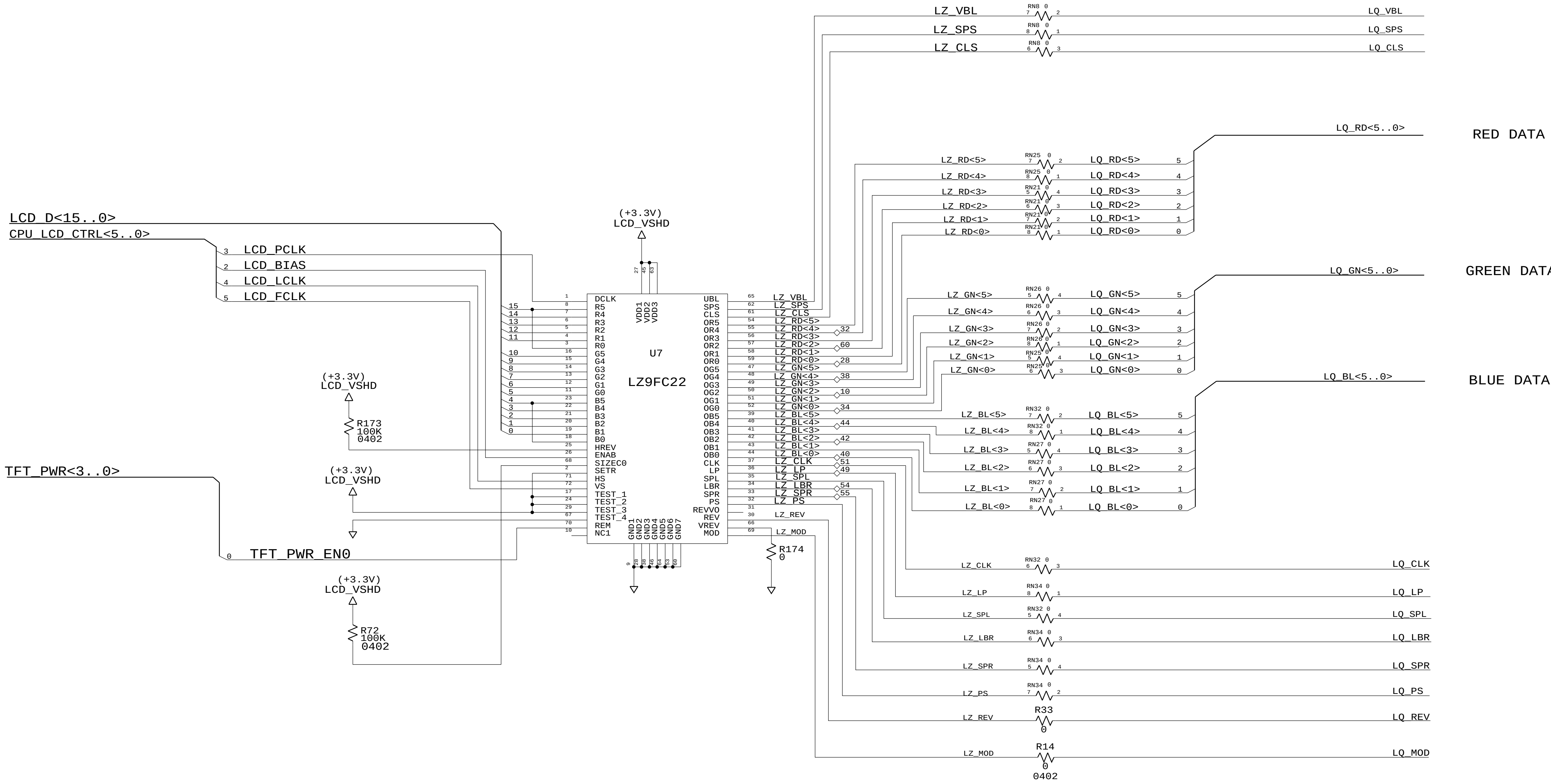


|                              |             |              |  |
|------------------------------|-------------|--------------|--|
| SYMBOL TECHNOLOGIES INC.     |             |              |  |
| Bohemia, New York            |             |              |  |
| GEMINI COLOR INTERFACE BOARD |             |              |  |
| MTM INTERFACE                |             |              |  |
| SIZE                         | DWG. NO.    | REV          |  |
| D                            | 17-59785-01 | C            |  |
| Tue Oct 7 09:19:43 2003      |             | SHEET 2 OF 7 |  |



LCD TIMING CONTROLLER

| REVISIONS |      |             |      |    |       |      |
|-----------|------|-------------|------|----|-------|------|
| REV       | ZONE | DESCRIPTION | E.C. | BY | APVD. | DATE |
|           |      | SEE SHEET 1 |      |    |       |      |



RED DATA

GREEN DATA

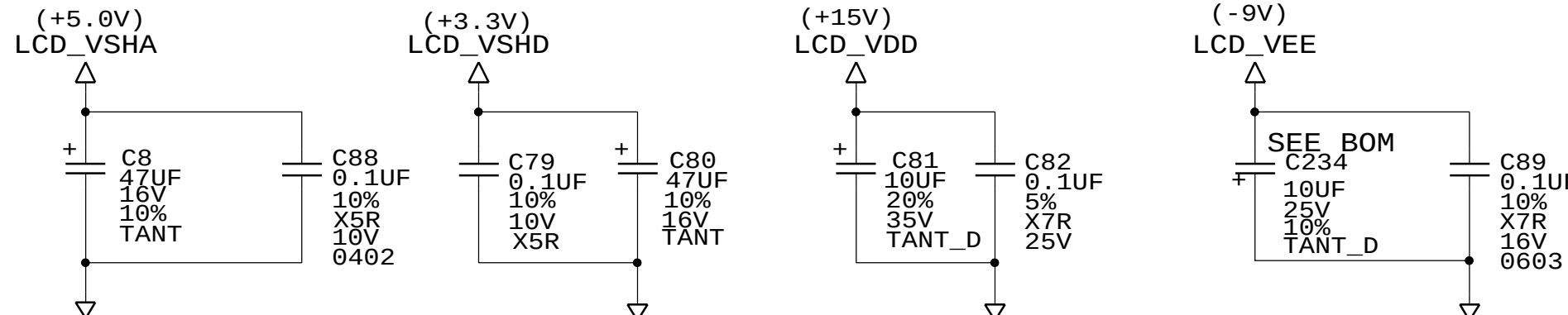
BLUE DATA

SPARES



C234 IS REMOVED TO PREVENT EXCESSIVE CURRENT DRAW AND DAMAGE TO THE DISPLAY

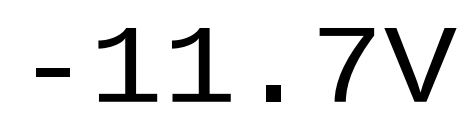
KEEP CLOSE TO CONTROLLER IC U7



| SYMBOL TECHNOLOGIES INC.     |              |             |       |
|------------------------------|--------------|-------------|-------|
| Bohemia, New York            |              |             |       |
| GEMINI COLOR INTERFACE BOARD |              |             |       |
| LCD TIMING                   |              |             |       |
| SIZE                         | DWG. NO.     | 17-59785-01 | REV C |
| Tue Oct 7 09:19:35 2003      | SHEET 3 OF 7 |             |       |



| REVISIONS |      |                                                                                   |             |      |    |       |      |
|-----------|------|-----------------------------------------------------------------------------------|-------------|------|----|-------|------|
| REV       | ZONE |  | DESCRIPTION | E.C. | BY | APVD. | DATE |
|           |      |                                                                                   | SEE SHEET 1 |      |    |       |      |









TFT PANEL POWER SEQUENCING

| REVISIONS |      |     |             |      |    |       |
|-----------|------|-----|-------------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |

DISPLAY 5.0 VOLTS

DISPLAY +15.0 VOLTS

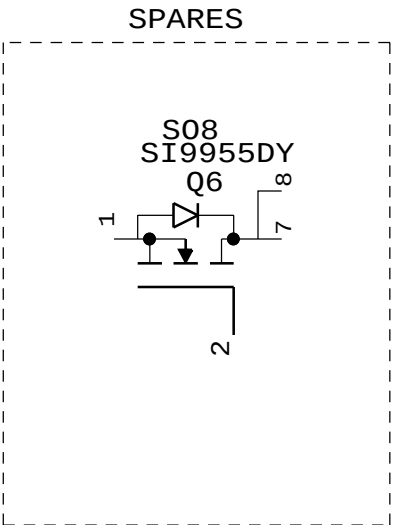
DISPLAY VEE -9.0 VOLTS

DISPLAY -15.0 VOLTS

DISPLAY 3.3 VOLTS

DISPLAY -11.7 VOLTS

| TFT DISPLAY PWR                |                                      |
|--------------------------------|--------------------------------------|
| VSHD:                          | +3.3VDC @ 1.8 MA(TYP)(3.6 MA MAX)    |
| VSHA:                          | +5.0VDC @ 5 MA(TYP)(10 MA MAX)       |
| VCC:                           | -11.7VDC @ -0.02MA(TYP)(-0.04MA MAX) |
| VSS:                           | -15VDC @ -0.06MA(TYP)(-0.12MA MAX)   |
| VEE:                           | -9.0VDC @ -0.03MA(TYP)(-0.06MA MAX)  |
| VDD:                           | +15 VDC @ 0.05MA(TYP)( 0.10MA MAX)   |
| VCOM: (+/-2.5)+1.1VDC          |                                      |
| POWER SEQUENCE                 |                                      |
| TURN ON                        |                                      |
| VSHD->VSHA->VSS->VCC->VEE->VDD |                                      |
| TURN OFF                       |                                      |
| VDD->VEE->VCC->VSS->VSHA->VSHD |                                      |



| SYMBOL TECHNOLOGIES INC.     |             |              |
|------------------------------|-------------|--------------|
| Bohemia, New York            |             |              |
| GEMINI COLOR INTERFACE BOARD |             |              |
| LCD POWER SEQUENCING         |             |              |
| SIZE                         | DWG. NO.    | REV          |
| D                            | 17-59785-01 | C            |
| Tue Oct 7 09:19:40 2003      |             | SHEET 6 OF 7 |







GEMINI  
MAIN TERMINAL MODULE (MTM)  
SCHEMATIC  
(WITH EMBEDDED 802.11B RADIO)  
REV A

| REVISIONS |      |     |                         |  |  |  |          |    |           |
|-----------|------|-----|-------------------------|--|--|--|----------|----|-----------|
| REV       | ZONE | NO. | DESCRIPTION             |  |  |  | E.C.     | BY | APVD.     |
| A         |      |     | RELEASE PER EDR # 72523 |  |  |  |          | MV | R. KOTSAV |
|           |      |     |                         |  |  |  | 12/11/03 |    |           |

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PAGE 6: 802.11B RADIO - IF  
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PAGE 15: CORE SUPPLY, BACKUP BATTERY & ACIN  
PAGE 16: MTM TO OPTION BOARD INTERFACE

CONFIGURATIONS:

-01 : 64 MBYTE FLASH / 64 MBYTE SDRAM WITH EMBEDDED T3 RADIO  
-02 : 32 MBYTE FLASH / 32 MBYTE SDRAM WITH EMBEDDED T3 RADIO  
-03 : 64 MBYTE FLASH / 128 MBYTE SDRAM WITH EMBEDDED T3 RADIO  
-04 : 32 MBYTE FLASH / 32 MBYTE SDRAM BATCH (NO RADIO)  
-05 : 64 MBYTE FLASH / 64 MBYTE SDRAM BATCH (NO RADIO)  
-06 : 64 MBYTE FLASH /128 MBYTE SDRAM BATCH (NO RADIO)

POPULATIONS:

1 NOT POPULATED ON ANY CONFIGURATION

CHANGES:

CHANGES FROM 64436 REV 5 : NONE

| POWER AND GROUND DESIGNATOR |      | LIST - 1 PART TYPE              |
|-----------------------------|------|---------------------------------|
| U9                          |      | LCX08-TSSOP14-VCC=VCC3          |
| GND                         | VCC3 |                                 |
| 7                           | 14   |                                 |
| U19                         | VCC3 | NC7SZ11-SC70-6-VCC=VCC3         |
| GND                         | 5    |                                 |
| 2                           |      |                                 |
| U22                         | VCC3 | TC7S00FU-SOT23-5-VCC=VCC3       |
| GND                         | 5    |                                 |
| 3                           |      |                                 |
| U26                         | VCCF | SAM256MB_WIDE-SAM256MB_WIDE-VCA |
| GND                         | A9   |                                 |
| A1                          | E7   |                                 |
| E3                          | J9   |                                 |
| J1                          |      |                                 |
| U30                         | VCCF | SAM256MB_WIDE-SAM256MB_WIDE-VCA |
| GND                         | A9   |                                 |
| A1                          | E7   |                                 |
| E3                          | J9   |                                 |
| J1                          |      |                                 |
| U33                         | VCC3 | AHC1G32-SC70-VCC=VCC3           |
| GND                         | 5    |                                 |
| 3                           |      |                                 |
| U37                         | VCCF | 28F256K3-EBGA64-INT-VCC=VCCF    |
| GND                         | A6   |                                 |
| B2                          | H3   |                                 |
| H4                          |      |                                 |
| U38                         | VCC3 | NC7SZ11-SC70-6-VCC=VCC3         |
| GND                         | 5    |                                 |
| 2                           |      |                                 |
| U39                         | VCC3 | NC7SZ27-SC70-6-VCC=VCC3         |
| GND                         | 5    |                                 |
| 2                           |      |                                 |
| U40                         | VCC3 | NC7SZ11-SC70-6-VCC=VCC3         |
| GND                         | 5    |                                 |
| 2                           |      |                                 |
| U44                         | VCC3 | LVC1G17-SC70-VCC=VCC3           |
| GND                         | 5    |                                 |
| 3                           |      |                                 |
| U48                         | VCCF | 28F256K3-EBGA64-INT-VCC=VCCF    |
| GND                         | A6   |                                 |
| B2                          | H3   |                                 |
| H4                          |      |                                 |
| U55                         | VCC3 | LVC1G17-SC70-VCC=VCC3           |
| GND                         | 5    |                                 |
| 3                           |      |                                 |
| U56                         | VCC3 | LVC1G17-SC70-VCC=VCC3           |
| GND                         | 5    |                                 |
| 3                           |      |                                 |
| U304                        | GND  | AHC1G32-SC70-VCC=3VDA           |
| 3VDA                        | 3    |                                 |
| 5                           |      |                                 |

SCHEMATIC ROOMS

ROOMS:

ACIN  
ASIC  
AUDIO  
AUDIOSUPPLY  
BACKUPBATTERY  
BATTERYCHARGER  
CPLD  
CURRENTMONITOR  
FAULTDETECT  
HISPEED  
RADIOATETP  
OPTIONBUFF  
POWMICRO  
RADIODIGITAL  
RADIOIF  
RADIORF  
USB  
3VSUPPLY

COMMCONN  
DISPLAYCONN  
IMAGERCONN  
POWERCONN  
SCANNERCONN  
SDMMCCONN  
TRIGCONN  
KEYBOARD\_BACKLIGHT  
IOCONN  
TOUCHSCREENCONN

CRITICAL SIGNALS

SIGNALS:

BX\_SDRAS, BX\_SDCAS, BX\_SDCS0, BX\_SDCLK1, BX\_WE, BX\_DQM3. .0  
MMCMD, MMDAT, MMCD\_DAT3\_CS  
YP, YM, XP, XM  
BUF\_EN\*  
D\_DIR  
BX\_ADDR, BX\_DATA  
LCD<15. .0>  
SPI\_D0, SPI\_DI  
PIX\_DATA<7. .0>  
RD/WR\*  
USB\_DPLUS, USB\_DMINUS

CLOCK TABLE

| CLOCK:       | FREQUENCY:                     |
|--------------|--------------------------------|
| SDCLK1       | (100 MHZ)                      |
| LCD_PCLK     | (MON0=1.66MHZ, COLOR=6.22MHZ)) |
| SDCLK_0      | (50 MHZ)                       |
| SDCLK_2      | (50 MHZ)                       |
| SDCLK0       | (50 MHZ)                       |
| CLK_48M      | (50 MHZ)                       |
| BX_SDCLK1    | (50 MHZ)                       |
| 48MHZ_GPI07  | (48 MHZ)                       |
| MMCLK        | (20 MHZ)                       |
| AC97_BITCLK  | (12.288 MHZ)                   |
| USB          | (12 MHZ)                       |
| PIX_CLK      | (12 MHZ)                       |
| SPI_CLK      | (5 MHZ)                        |
| TCLK         | (12 MHZ)                       |
| IRDA         | (4 MHZ)                        |
| CLK_3M6      | (3.6 MHZ)                      |
| SCL          | (400 KHZ)                      |
| CLK_32K      | (32 KHZ)                       |
| CPLD_CLK_32K | (32 KHZ)                       |
| ISL_CLK      | (1 MHZ)                        |
| 44MHZ_CW     | (44 MHZ)                       |
| 44MHZ_REF    | (44 MHZ)                       |

SCHEMATIC ATTRIBUTES

ATTRIBUTES:

NET\_PHYSICAL\_TYPE  
CLOCK\_NET  
DIFFERENTIAL\_PAIR  
IMPEDANCE\_RULE

NOTES:

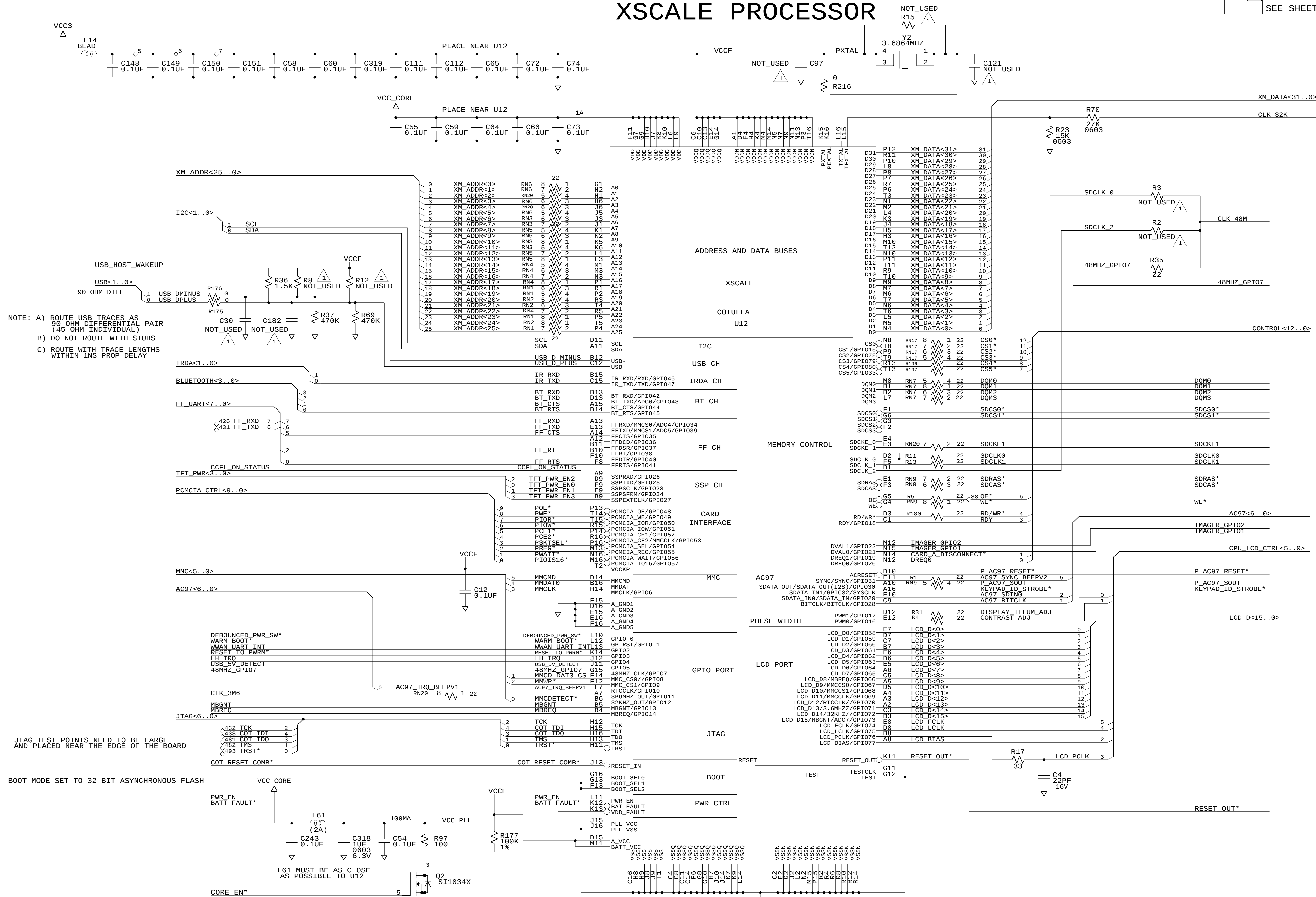
- ALL RESISTORS ARE 0402, 5% UNLESS NOTED OTHERWISE
- ALL CAPACITORS ARE 0402, 10V, X7R OR COG, 10% UNLESS NOTED OTHERWISE

| ITEM       | QTY. | PART NO. | DESCRIPTION                | REMARKS/REF. SYMBOL  |
|------------|------|----------|----------------------------|----------------------|
| PARTS LIST |      |          |                            |                      |
|            |      |          | APPROVALS                  | DATE                 |
|            |      |          | DRAWN D. DEMEO             | 12/11/03             |
|            |      |          | CHECKED R. KOTSAV          | 12/11/03             |
|            |      |          | ENGINEER D. DEMEO          | 12/11/03             |
|            |      |          | MFG. ENG. P. IASSO         | 12/11/03             |
|            |      |          | PRODUCT G. STILL           | 12/11/03             |
|            |      |          | QUALITY B. WATSON          | 12/11/03             |
|            |      |          | TEST ENG. D. REED          | 12/11/03             |
|            |      |          | SYMBOL TECHNOLOGIES INC.   |                      |
|            |      |          | Bohemia, New York          |                      |
|            |      |          | GEMINI MTM BOARD SCHEMATIC |                      |
|            |      |          | SIZE D                     | DWG. NO. 17-64436-01 |
|            |      |          | REV A                      |                      |
|            |      |          | Thu Dec 11 15:55:51 2003   |                      |
|            |      |          | SHEET 1 OF 16              |                      |
|            |      |          | DO NOT SCALE DRAWING       |                      |
|            |      |          | NEXT ASSY USED ON          |                      |



# XSCALE PROCESSOR

| REVISIONS |      |     |             |       |    |       |      |
|-----------|------|-----|-------------|-------|----|-------|------|
| REV       | ZONE | NO. | DESCRIPTION | E. C. | BY | APVD. | DATE |
|           |      |     | SEE SHEET 1 |       |    |       |      |



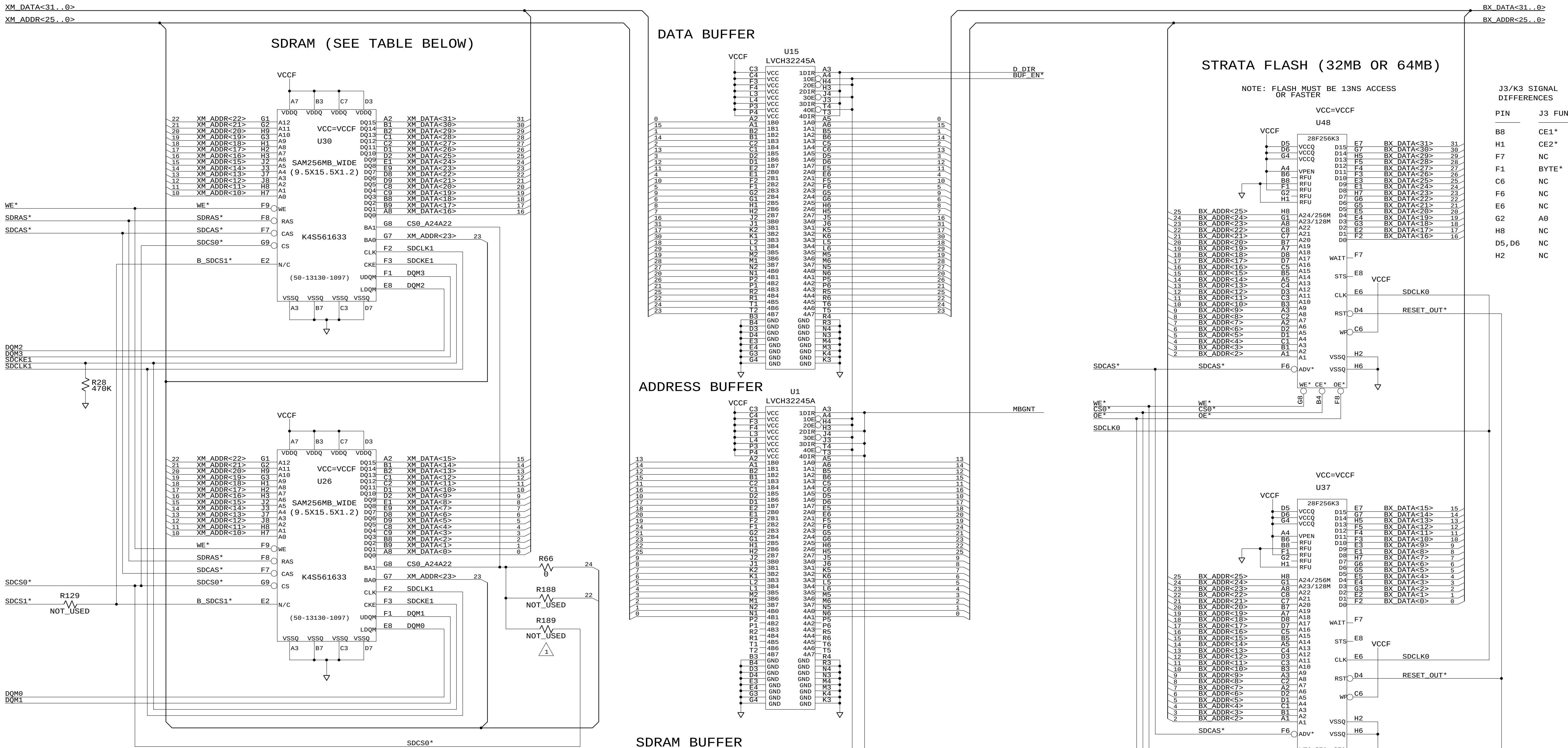
ROOMS:  
ALL COMPONENTS : HISPEED

|                                      |          |             |          |
|--------------------------------------|----------|-------------|----------|
| SYMBOL TECHNOLOGIES INC              |          |             |          |
| Bohemia, New York                    |          |             |          |
| GEMINI MTM BOARD<br>XSCALE PROCESSOR |          |             |          |
| SIZE<br>D                            | DWG. NO. | 17-64436-01 | REV<br>A |
| Thu Dec 11 15:58:13 2003             |          | SHEET       | 2 OF 10  |

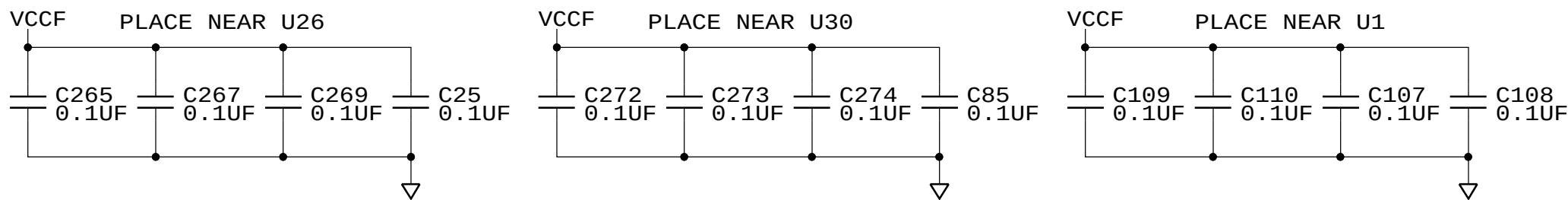


# MEMORY & BUFFERS

| REVISIONS |      |     |             |      |    |
|-----------|------|-----|-------------|------|----|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY |
|           |      |     | SEE SHEET 1 |      |    |



| DENSITY         | R66 | R129 | R188 | R189 |
|-----------------|-----|------|------|------|
| 128MBYTE (2 CS) | IN  | IN   | OUT  | OUT  |
| 64MBYTE         | IN  | OUT  | OUT  | OUT  |
| 32MBYTE         | OUT | OUT  | IN   | OUT  |
| 16MBYTE         | OUT | OUT  | IN   | OUT  |



ROOMS:  
ALL COMPONENTS : HISPEED

| SYMBOL TECHNOLOGIES INC.             |                         |               |
|--------------------------------------|-------------------------|---------------|
| Bohemia, New York                    |                         |               |
| GEMINI MTM BOARD<br>MEMORY & BUFFERS |                         |               |
| SIZE<br>D                            | DWG. NO.<br>17-64436-01 | REV<br>A      |
| Thu Dec 11 15:58:18 2003             |                         | SHEET 3 OF 16 |

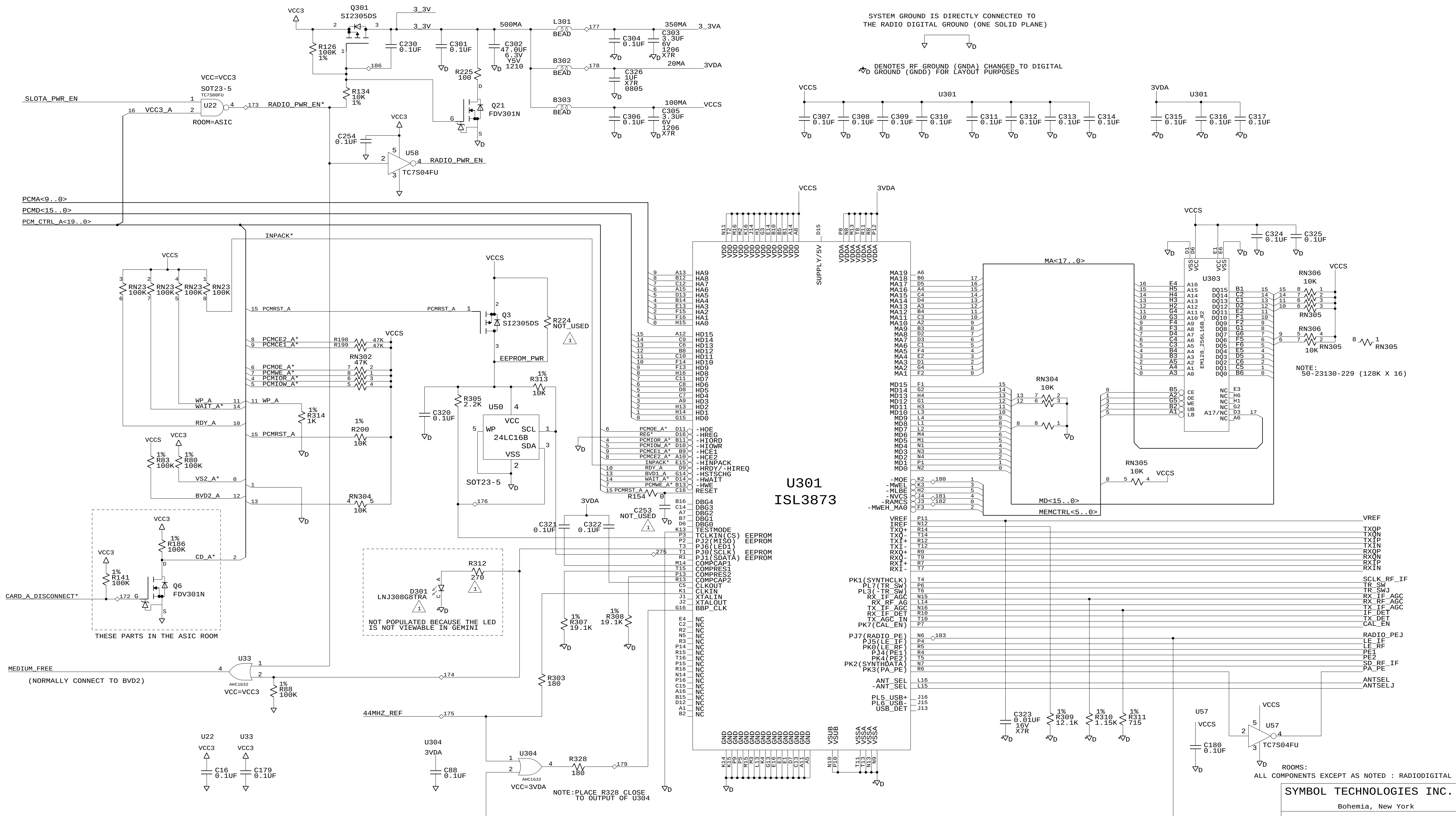






# T3-BASED 802.11B RADIO - BASEBAND

| REVISIONS |      |     |             |      |    |       |      |
|-----------|------|-----|-------------|------|----|-------|------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. | DATE |
|           |      |     | SEE SHEET 1 |      |    |       |      |

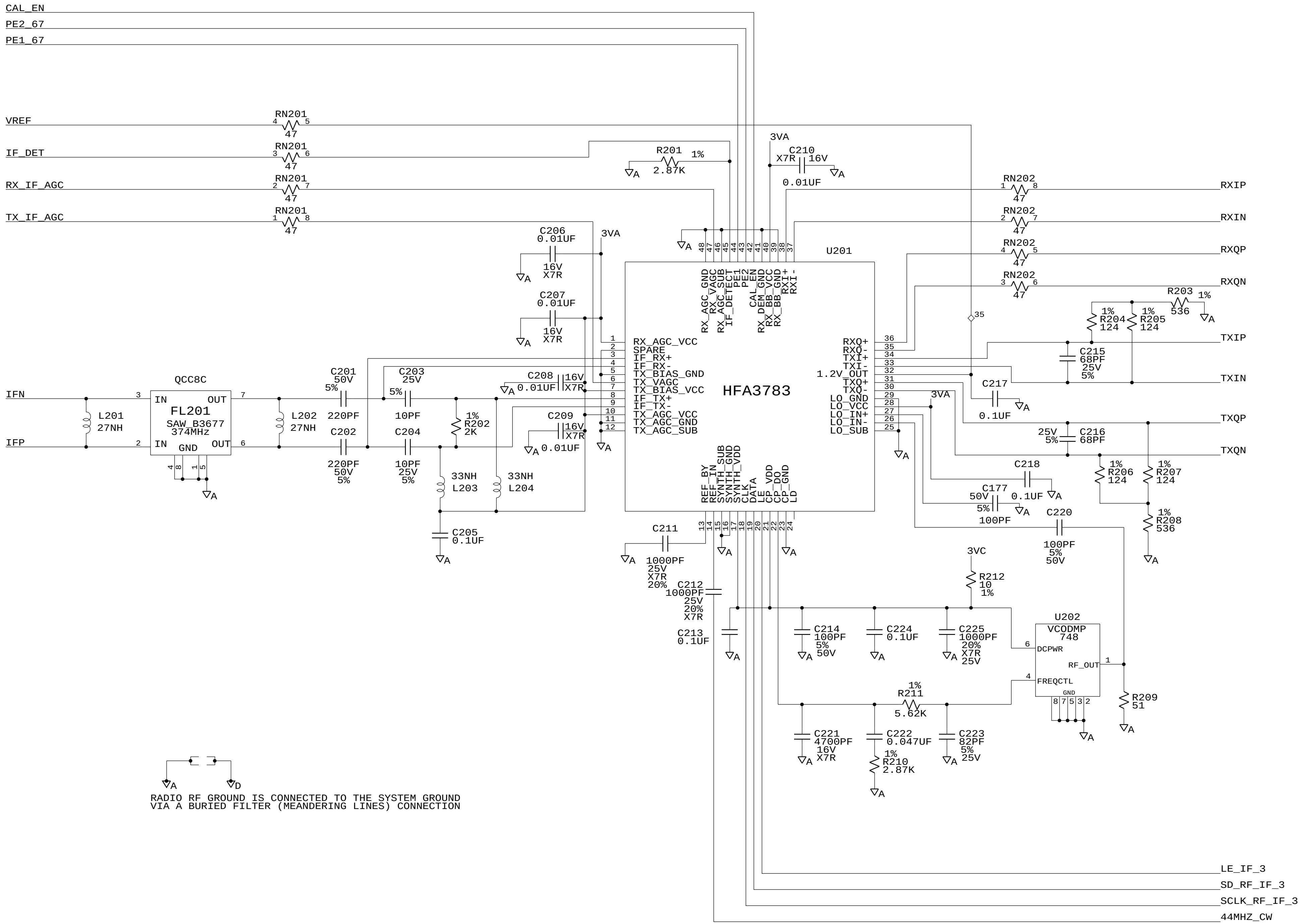


|                                                            |                                |                 |  |
|------------------------------------------------------------|--------------------------------|-----------------|--|
| <b>SYMBOL TECHNOLOGIES INC.</b><br>Bohemia, New York       |                                |                 |  |
| <b>GEMINI MTM BOARD</b><br><b>802.11B RADIO - BASEBAND</b> |                                |                 |  |
| SIZE<br><b>D</b>                                           | DWG. NO.<br><b>17-64436-01</b> | REV<br><b>A</b> |  |
| Thu Dec 11 15:58:25 2003                                   |                                | SHEET 5 OF 16   |  |



T3-BASED 802.11B RADIO - IF

| REVISIONS |      |     |             |      |    |       |
|-----------|------|-----|-------------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |

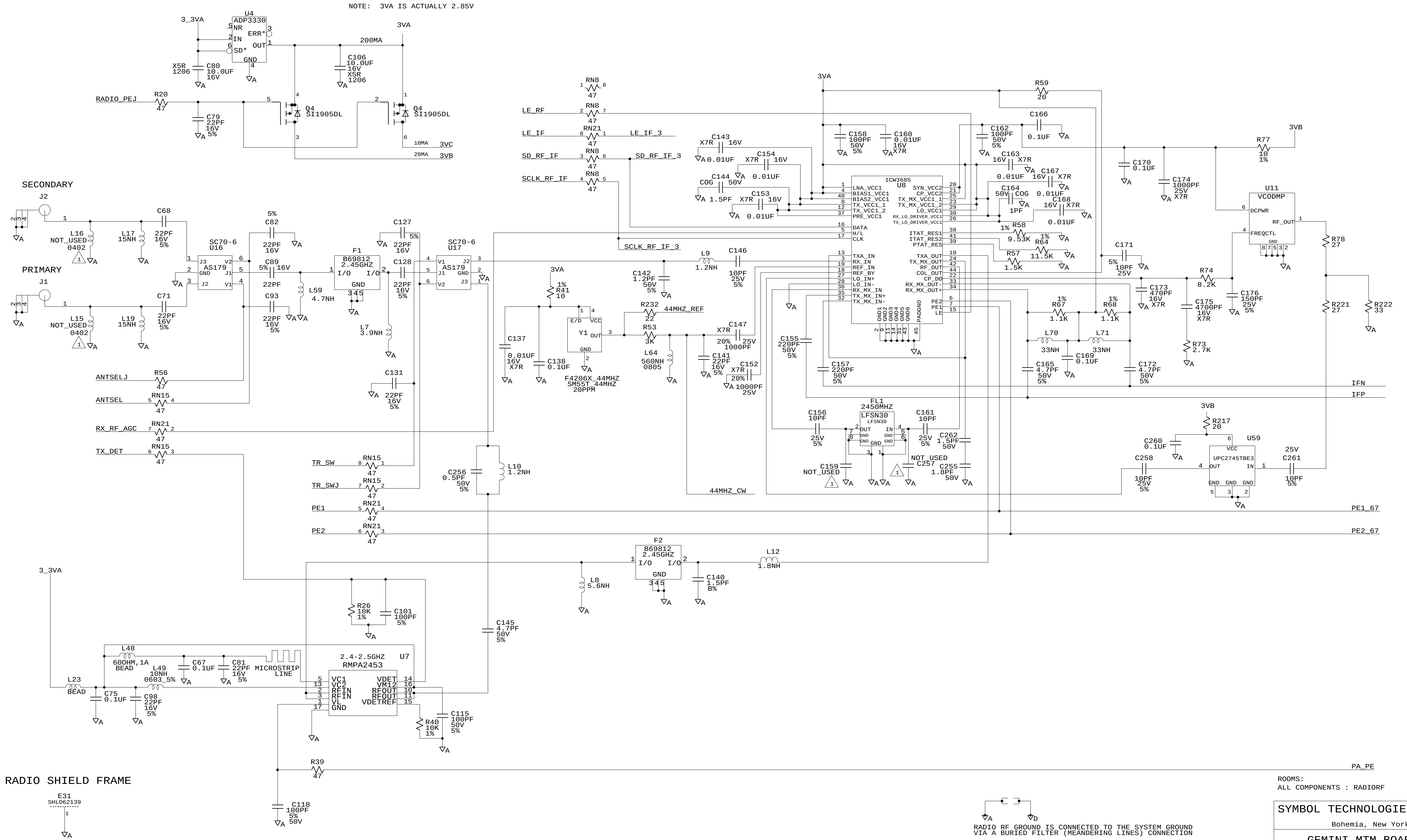


|                                               |                         |               |  |
|-----------------------------------------------|-------------------------|---------------|--|
| ROOMS:<br>ALL COMPONENTS : RADIOIF            |                         |               |  |
| SYMBOL TECHNOLOGIES INC.<br>Bohemia, New York |                         |               |  |
| GEMINI MTM BOARD<br>802.11B RADIO - IF        |                         |               |  |
| SIZE<br>D                                     | DWG. NO.<br>17-64436-01 | REV<br>A      |  |
| Thu Dec 11 15:58:37 2003                      |                         | SHEET 6 OF 16 |  |



802.11B RADIO - RF

| REVISIONS |      |             |      |    |       |      |
|-----------|------|-------------|------|----|-------|------|
| REV       | ZONE | DESCRIPTION | E.C. | BY | APVD. | DATE |
|           |      | SEE SHEET 1 |      |    |       |      |



ROOMS:  
ALL COMPONENTS : RADIORF

| SYMBOL TECHNOLOGIES INC. |          |               |       |
|--------------------------|----------|---------------|-------|
| Bohemia, New York        |          |               |       |
| GEMINI MTM BOARD         |          |               |       |
| 802.11B RADIO - RF       |          |               |       |
| SIZE                     | DWG. NO. | 17-64436-01   | REV A |
| Thu Dec 11 15:58:41 2003 |          | SHEET 7 OF 16 |       |

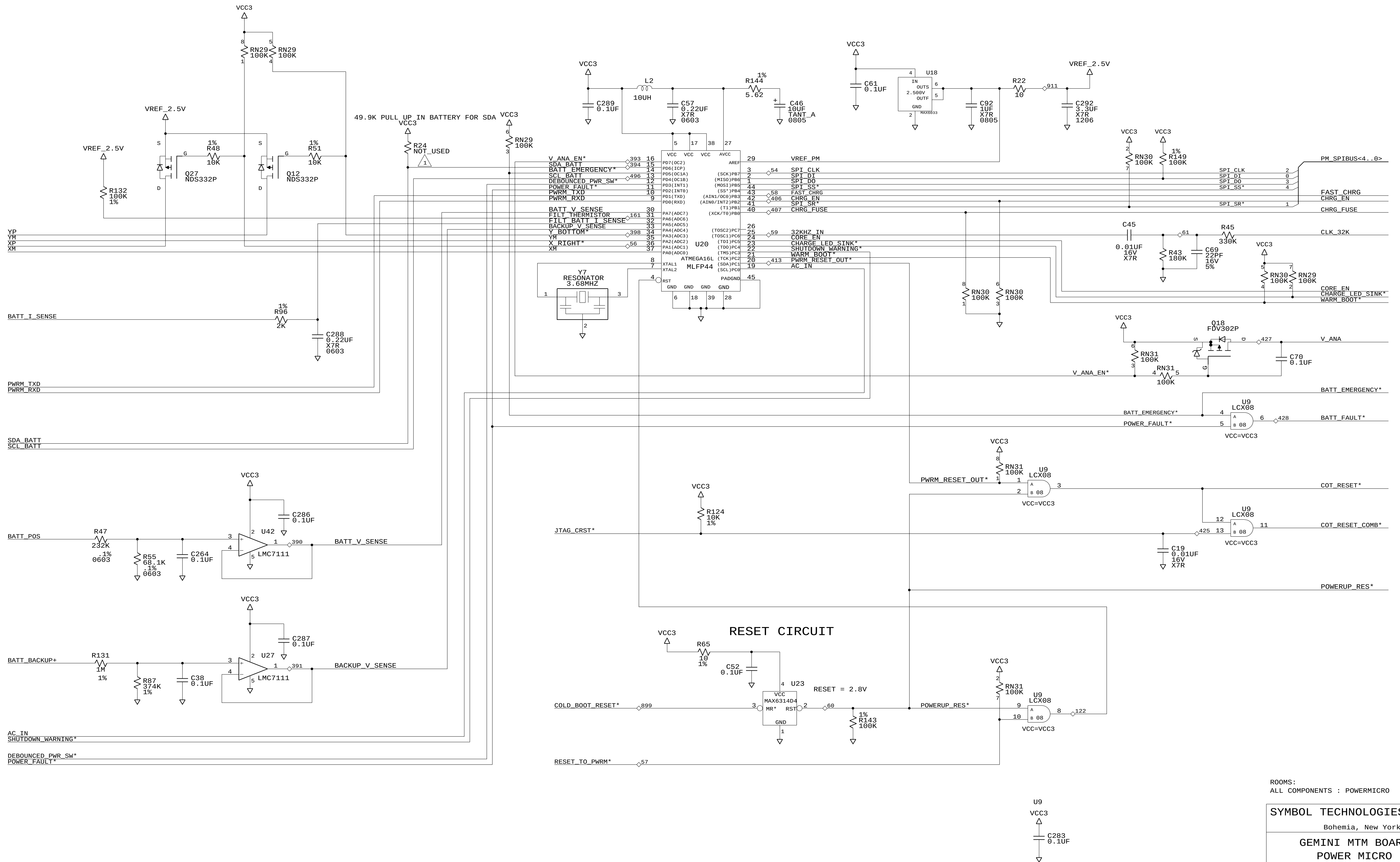






# POWER MICRO

| REVISIONS |      |     |             |       |    |       |      |
|-----------|------|-----|-------------|-------|----|-------|------|
| REV       | ZONE | NO. | DESCRIPTION | E. C. | BY | APVD. | DATE |
|           |      |     | SEE SHEET 1 |       |    |       |      |



ROOMS:  
ALL COMPONENTS : POWERMICRO

SYMBOL TECHNOLOGIES INC.

Bohemia, New York

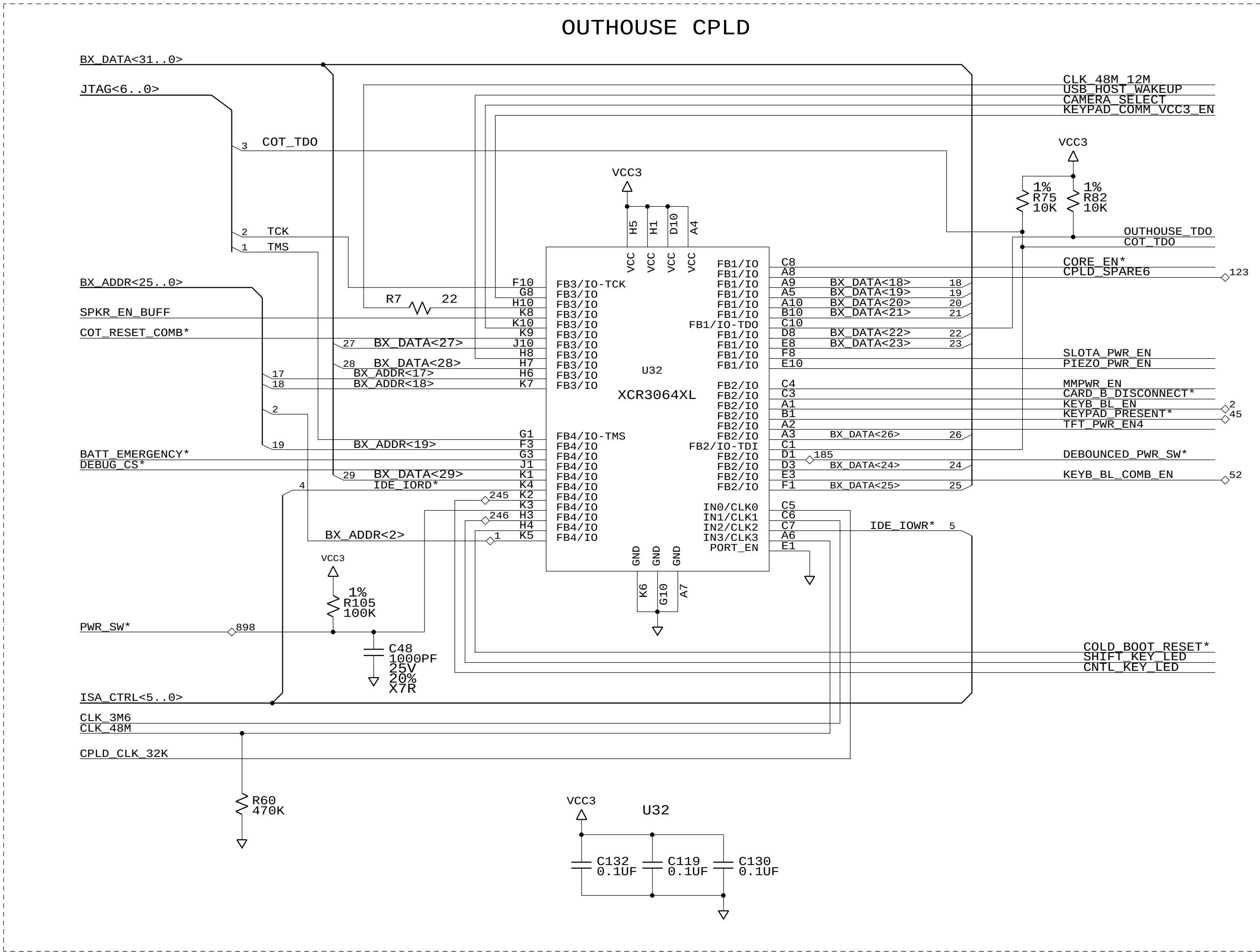
GEMINI MTM BOARD  
POWER MICRO

|                          |                         |               |
|--------------------------|-------------------------|---------------|
| SIZE<br>D                | DWG. NO.<br>17-64436-01 | REV<br>A      |
| Thu Dec 11 15:58:50 2003 |                         | SHEET 9 OF 16 |



DISPLAY INTERFACE & OUTHOUSE CPLD

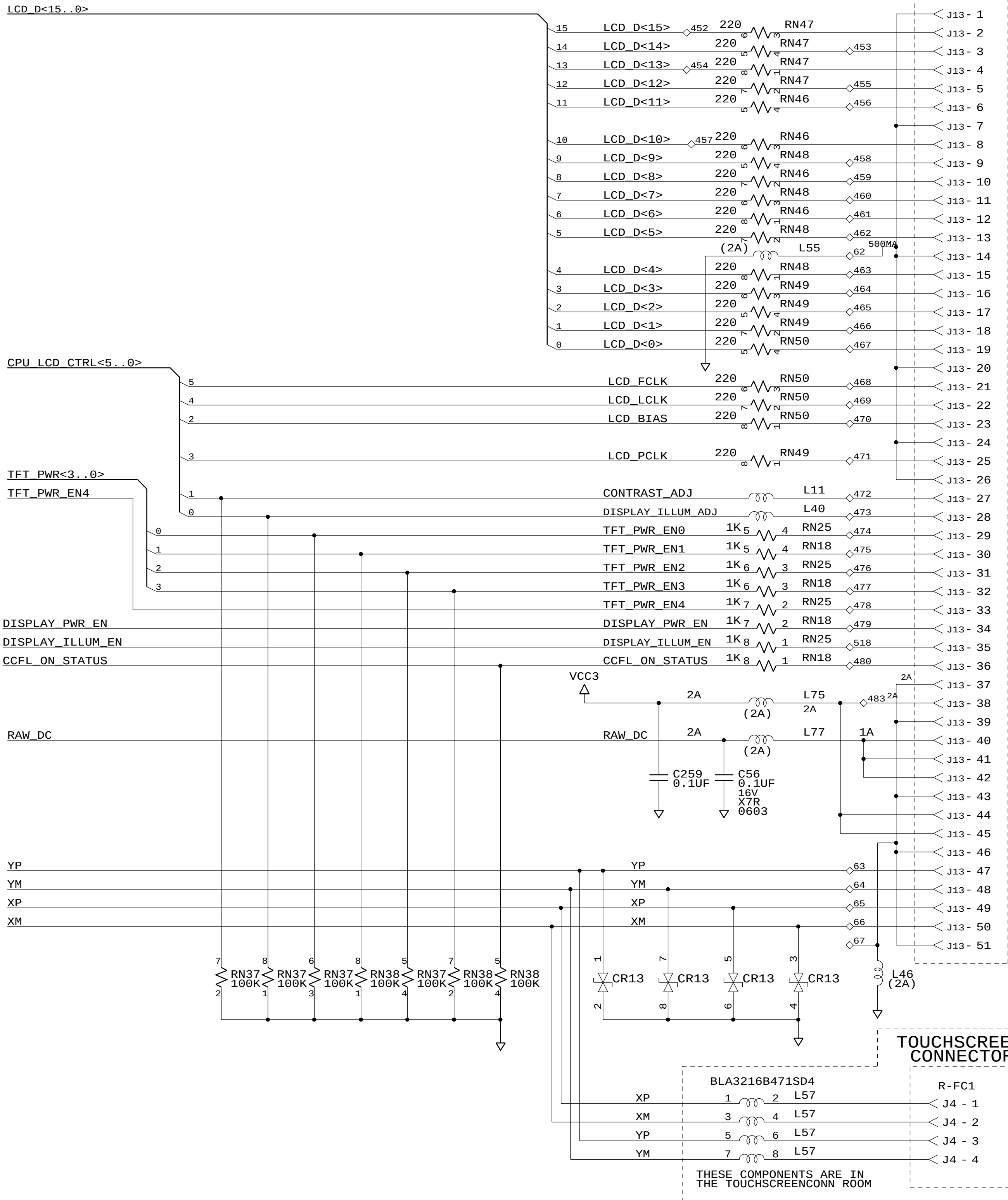
| REVISIONS |      |     |             |      |    |       |
|-----------|------|-----|-------------|------|----|-------|
| REV       | ZONE | No. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |
|           |      |     |             |      |    | DATE  |



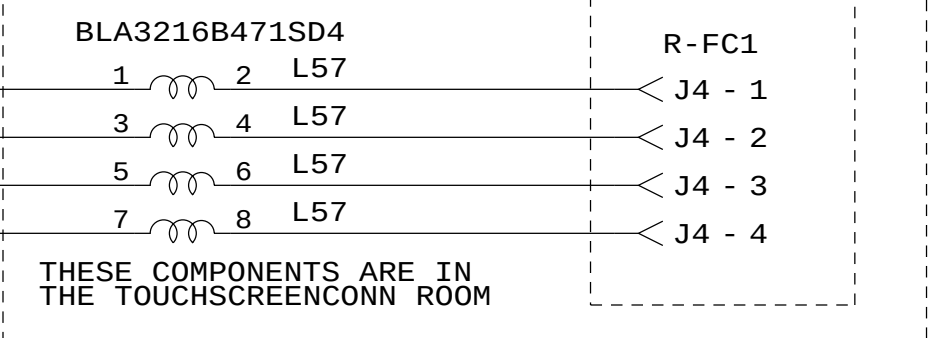
THESE COMPONENTS ARE IN THE CPLD ROOM

CPLD SIGNAL MAPPING

| BX_DATA | SIGNAL (ALL OUTPUTS OR INTERNAL)        |
|---------|-----------------------------------------|
| 29      | USB_HOST_WAKEUP                         |
| 28      | SHIFT_KEY_LED                           |
| 27      | CNTL_KEY_LED                            |
| 26      | CAMERA_SELECT                           |
| 25      | KEYPAD_COMM_VCC3_EN                     |
| 24      | AUDIO_DURING_SUSPEND (INTERNAL TO CPLD) |
| 23      | SLOTA_PWR_EN                            |
| 22      | ASIC_CLK_SEL (INTERNAL TO CPLD)         |
| 21      | MMPWR_EN*                               |
| 20      | PIEZO_PWR_EN                            |
| 19      | CARD_B_DISCONNECT*                      |
| 18      | TFT_PWR_EN4                             |



TOUCHSCREEN CONNECTOR



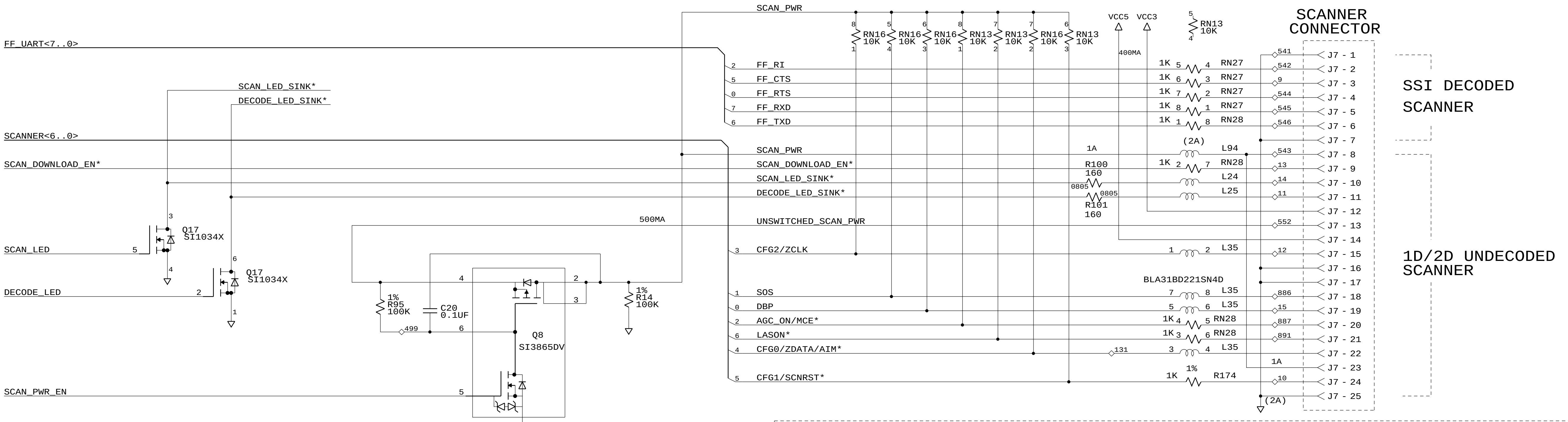
ROOMS:  
ALL COMPONENTS EXCEPT AS NOTED : DISPLAYCONN

| SYMBOL TECHNOLOGIES INC.  |                |             |       |
|---------------------------|----------------|-------------|-------|
| Bohemia, New York         |                |             |       |
| GEMINI MTM BOARD          |                |             |       |
| DISPLAY & COMMUNICATIONS  |                |             |       |
| SIZE                      | DWG. NO.       | 17-64436-01 | REV A |
| Thru Dec 11 15:57:36 2003 | SHEET 10 OF 16 |             |       |

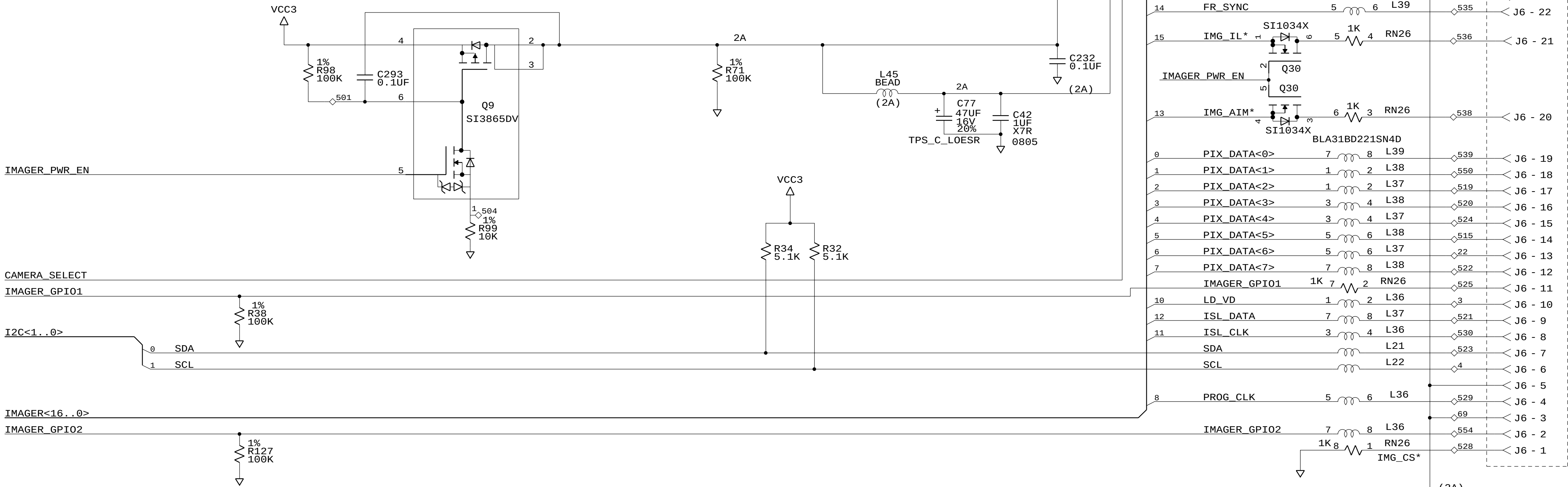


SCANNER & IMAGER INTERFACES

| REVISIONS |      |     |             |       |      |
|-----------|------|-----|-------------|-------|------|
| REV       | ZONE | NO. | DESCRIPTION | E.C.  | BY   |
|           |      |     | SEE SHEET 1 |       |      |
|           |      |     |             | APVD. | DATE |



THESE COMPONENTS ARE IN THE SCANNERCONN ROOM



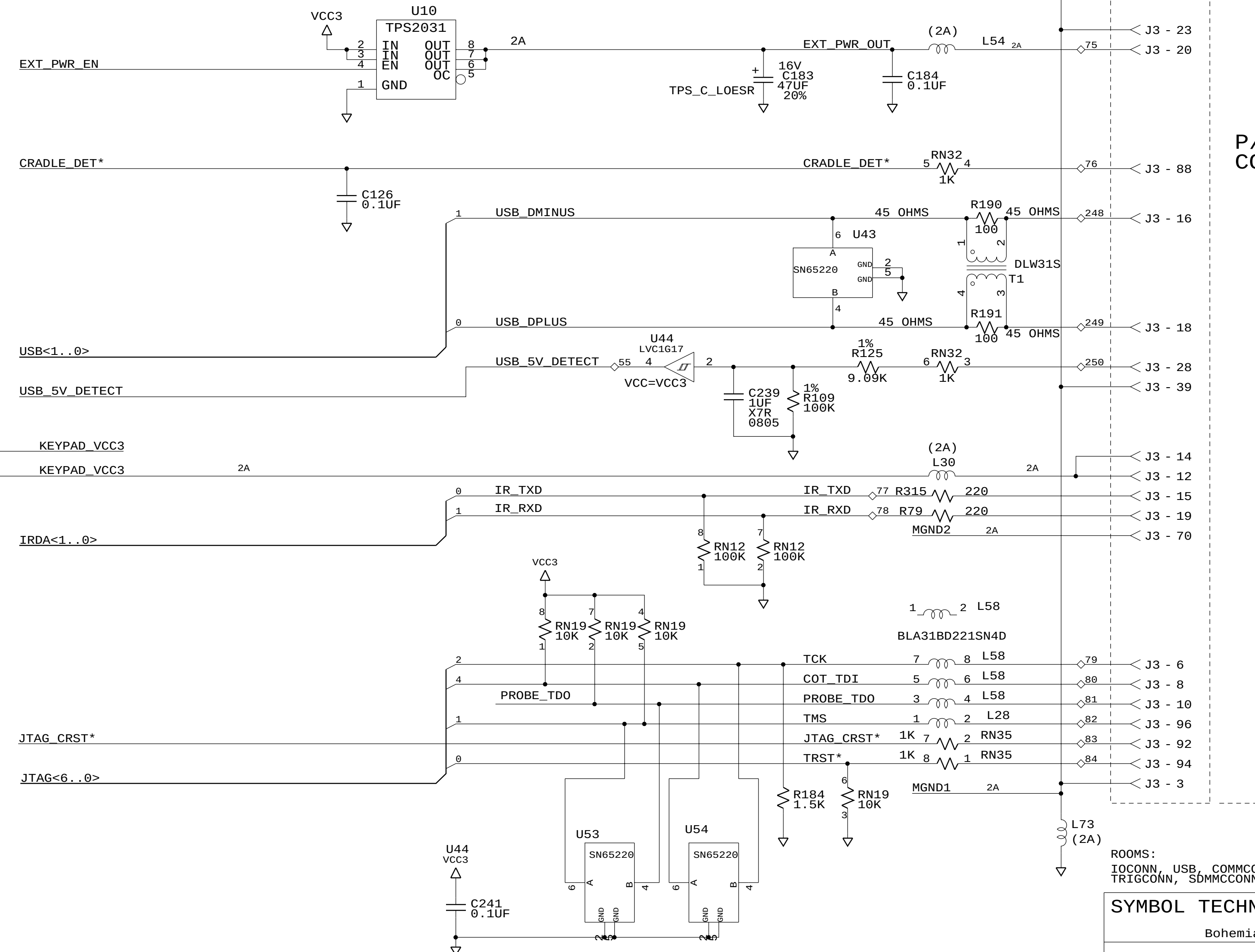
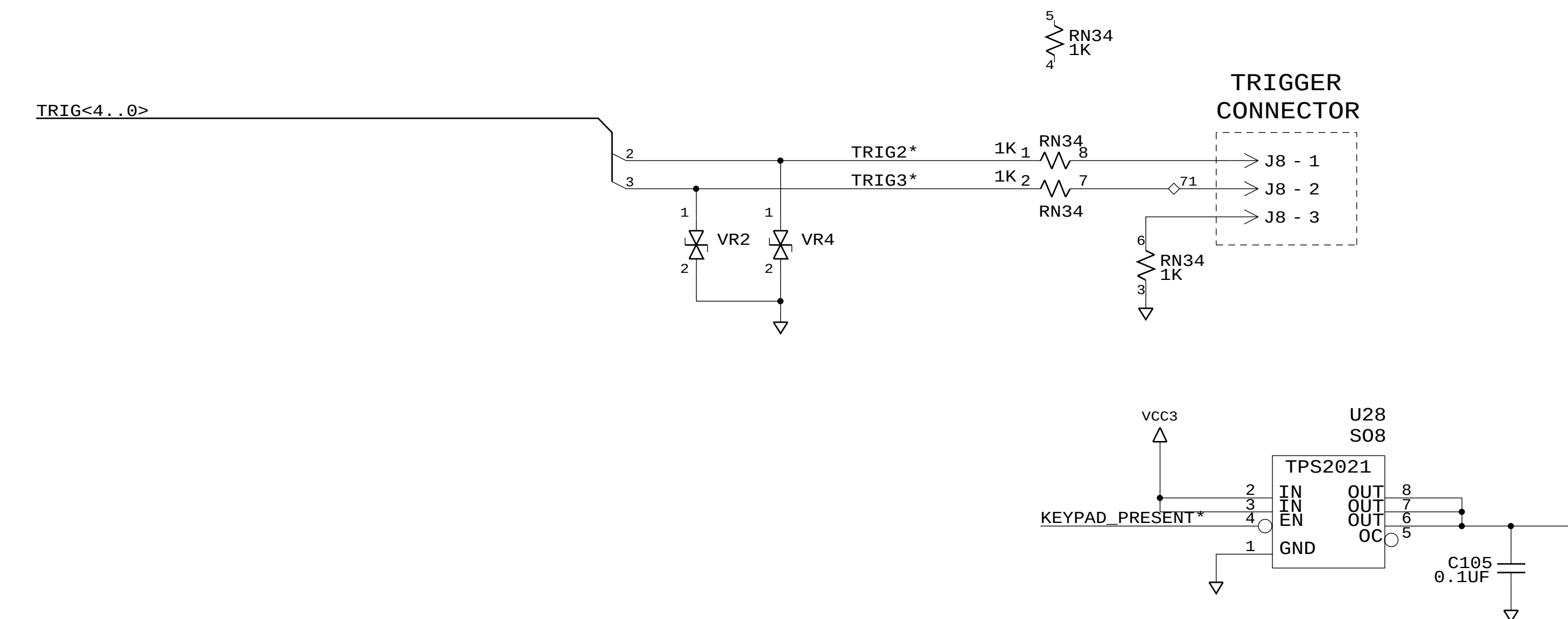
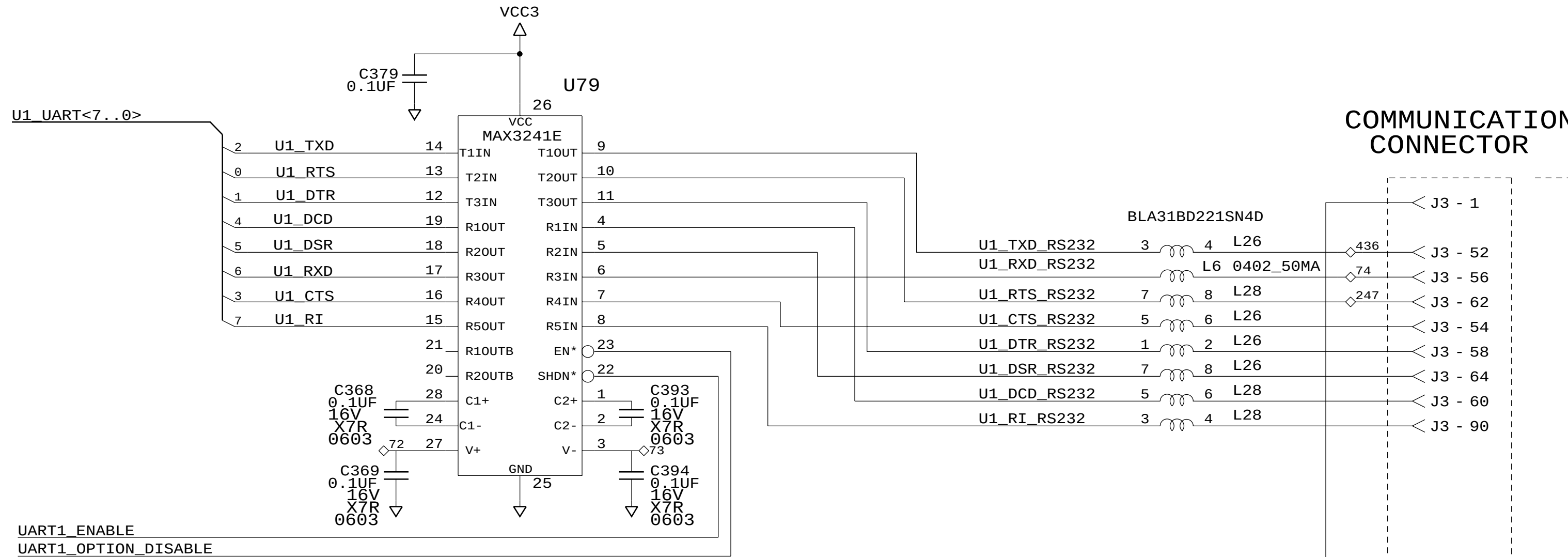
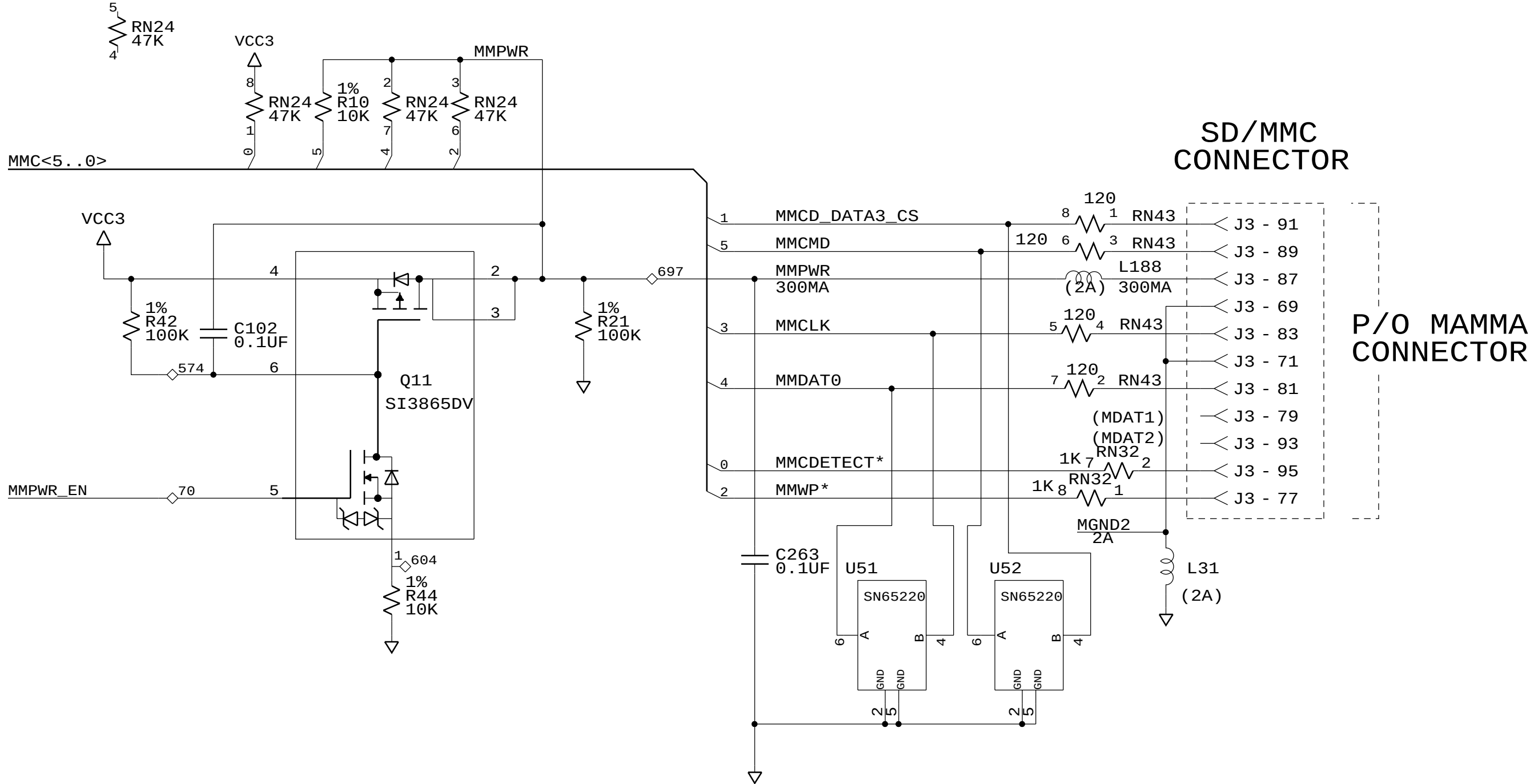
THESE COMPONENTS ARE IN THE IMAGERCONN ROOM

|                             |             |                |
|-----------------------------|-------------|----------------|
| SYMBOL TECHNOLOGIES INC.    |             |                |
| Bohemia, New York           |             |                |
| GEMINI MTM BOARD            |             |                |
| SCANNER & IMAGER INTERFACES |             |                |
| SIZE                        | DWG. NO.    | REV            |
| D                           | 17-64436-01 | A              |
| Thu Dec 11 15:57:42 2003    |             | SHEET 11 OF 16 |



# SD/MMC, COMMUNICATION & TRIGGER INTERFACES

| REVISIONS |      |     |             |      |    |
|-----------|------|-----|-------------|------|----|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY |
| 1         |      |     | SEE SHEET 1 |      |    |

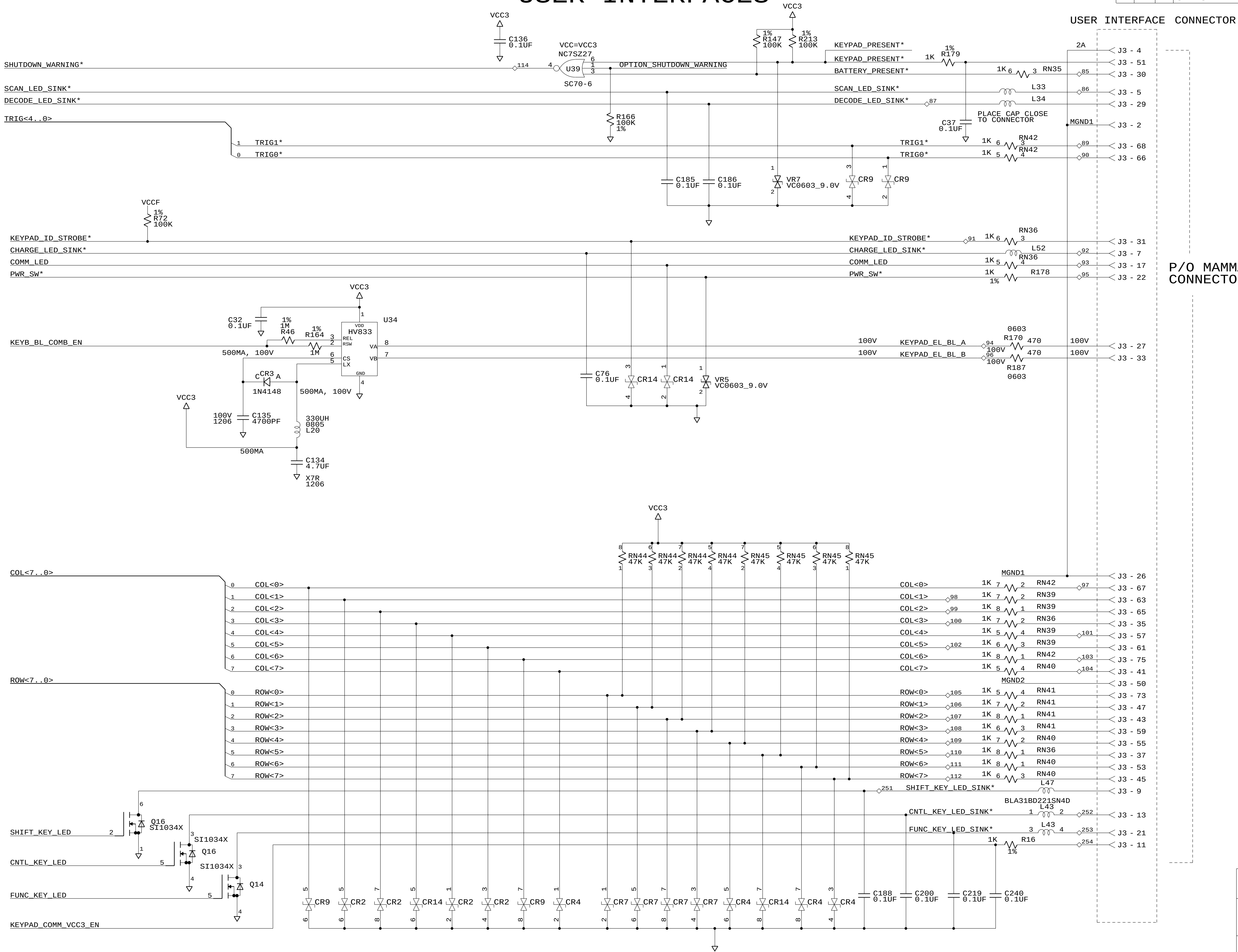


|                                                       |                         |                |  |
|-------------------------------------------------------|-------------------------|----------------|--|
| ROOMS:<br>IOCONN, USB, COMMCONN<br>TRIGCONN, SDMMCONN |                         |                |  |
| SYMBOL TECHNOLOGIES INC.<br>Bohemia, New York         |                         |                |  |
| GEMINI MTM BOARD<br>SD/MMC, COMM & TRIG INTERFACES    |                         |                |  |
| SIZE<br>D                                             | DWG. NO.<br>17-64436-01 | REV<br>A       |  |
| Thu Dec 11 15:57:46 2003                              |                         | SHEET 12 OF 16 |  |



USER INTERFACES

| REVISIONS |      |     |             |      |               |
|-----------|------|-----|-------------|------|---------------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY APVD. DATE |
|           |      |     | SEE SHEET 1 |      |               |

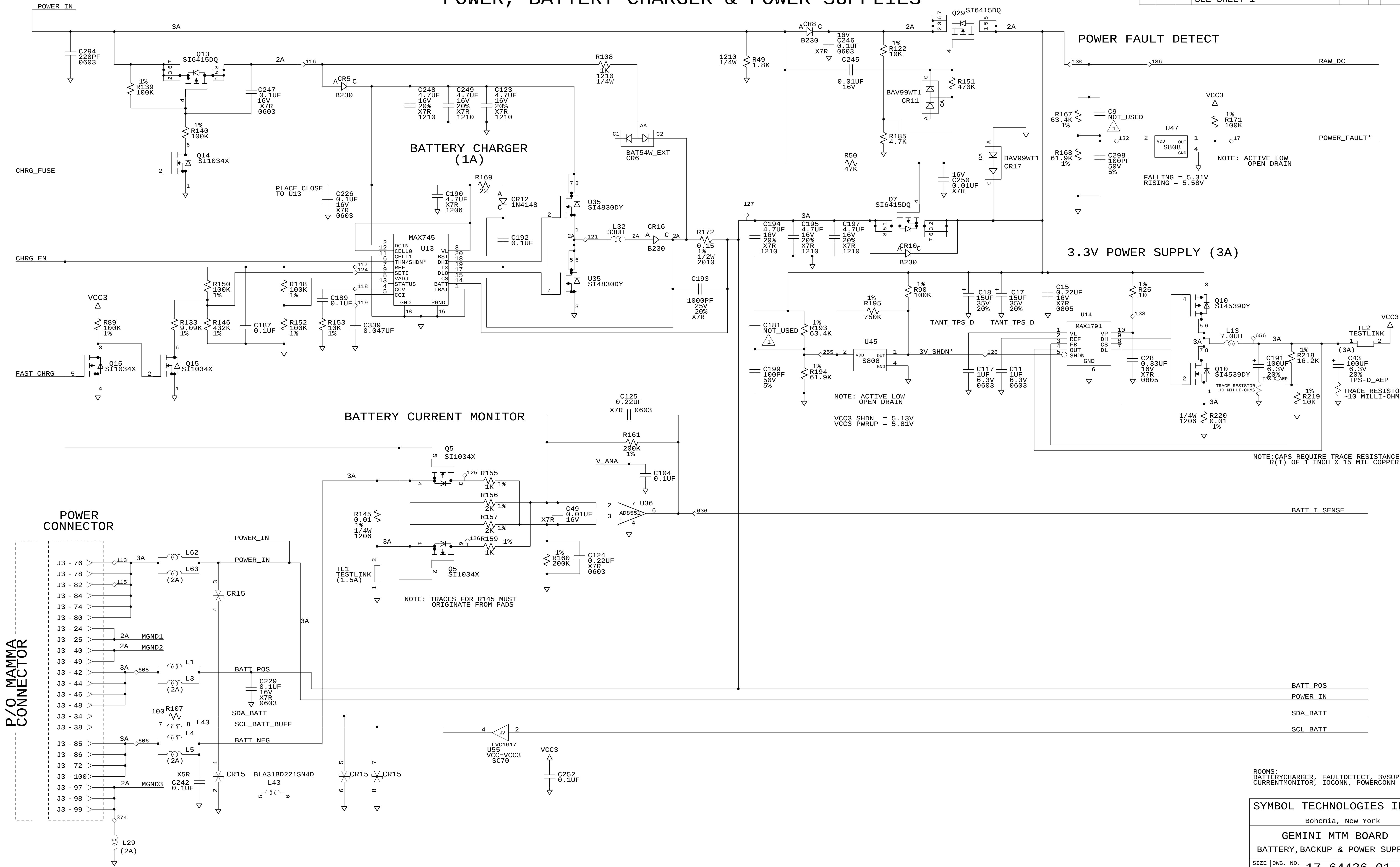


| SYMBOL TECHNOLOGIES INC.           |                         |                |  |
|------------------------------------|-------------------------|----------------|--|
| Bohemia, New York                  |                         |                |  |
| GEMINI MTM BOARD<br>USER INTERFACE |                         |                |  |
| SIZE<br>D                          | DWG. NO.<br>17-64436-01 | REV<br>A       |  |
| Thu Dec 11 15:57:51 2003           |                         | SHEET 13 OF 16 |  |



POWER, BATTERY CHARGER & POWER SUPPLIES

| REVISIONS |      |             |      |    |       |
|-----------|------|-------------|------|----|-------|
| REV       | ZONE | DESCRIPTION | E.C. | BY | APVD. |
|           |      | SEE SHEET 1 |      |    |       |

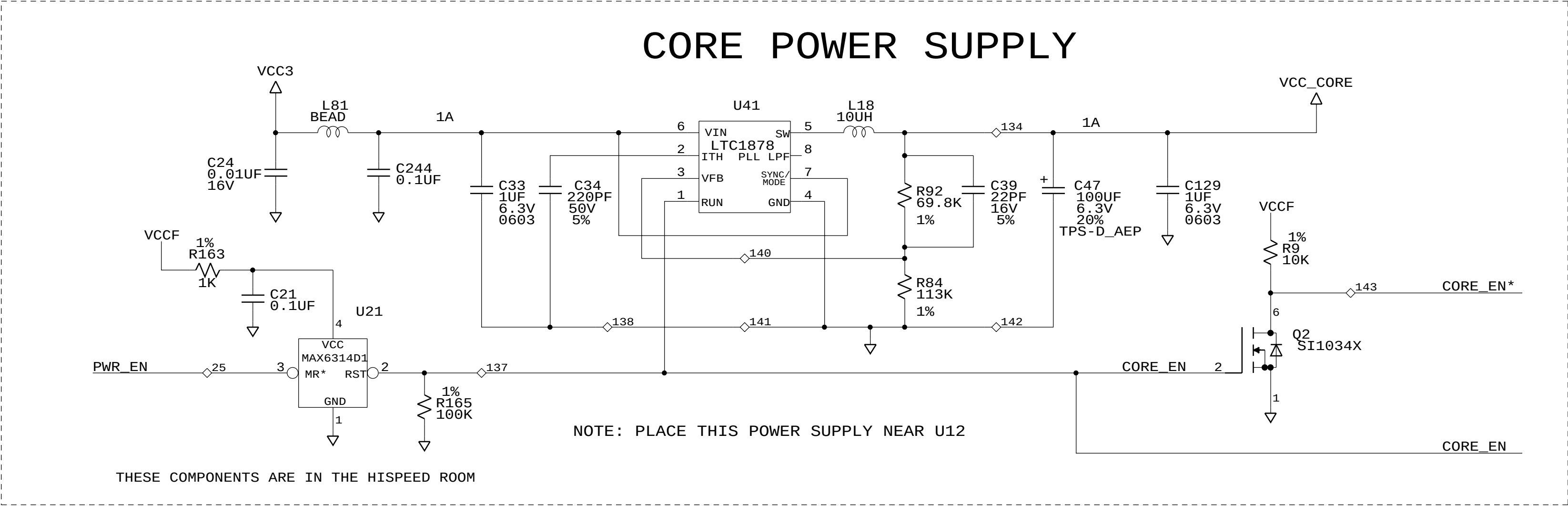


ROOMS:  
BATTERYCHARGER, FAULTDETECT, 3VSUPPLY  
CURRENTMONITOR, IOCONN, POWERCONN

| SYMBOL TECHNOLOGIES INC.       |          |                |     |
|--------------------------------|----------|----------------|-----|
| Bohemia, New York              |          |                |     |
| GEMINI MTM BOARD               |          |                |     |
| BATTERY, BACKUP & POWER SUPPLY |          |                |     |
| SIZE                           | DWG. NO. | 17-64436-01    | REV |
| D                              |          |                | A   |
| Thu Dec 11 15:57:57 2003       |          | SHEET 14 OF 16 |     |

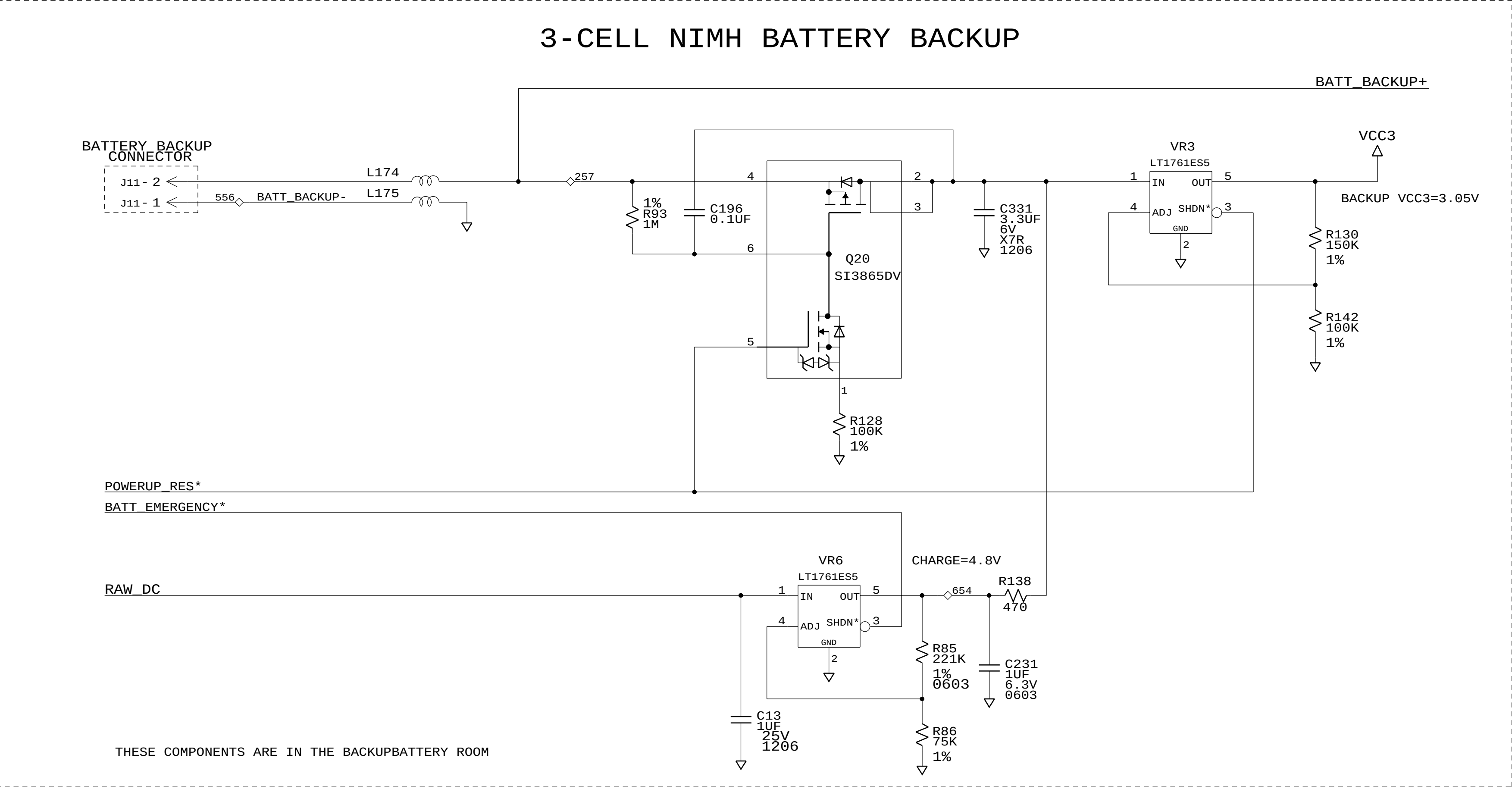


| REVISIONS |      |             |      |    |       |
|-----------|------|-------------|------|----|-------|
| REV       | ZONE | DESCRIPTION | E.C. | BY | APVD. |
|           |      | SEE SHEET 1 |      |    |       |



XSCALE  
CORE POWER SUPPLY VOLTAGE  
SELECTION MATRIX

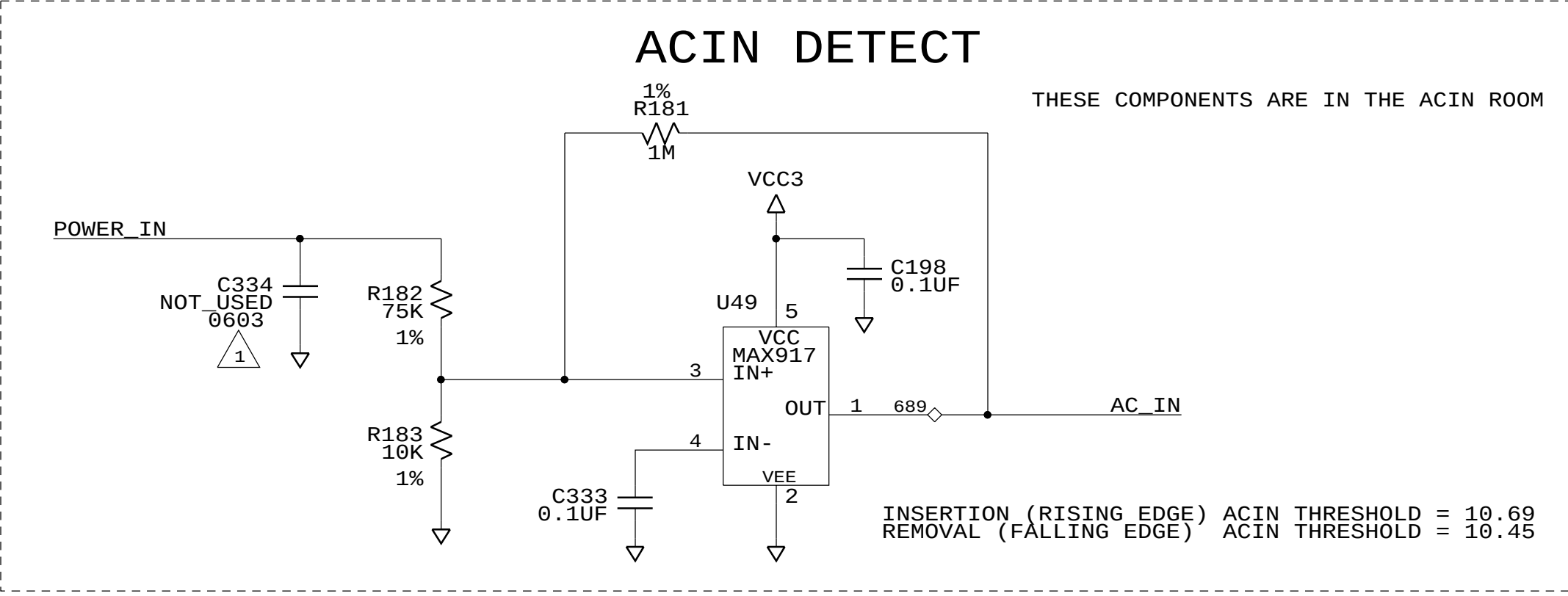
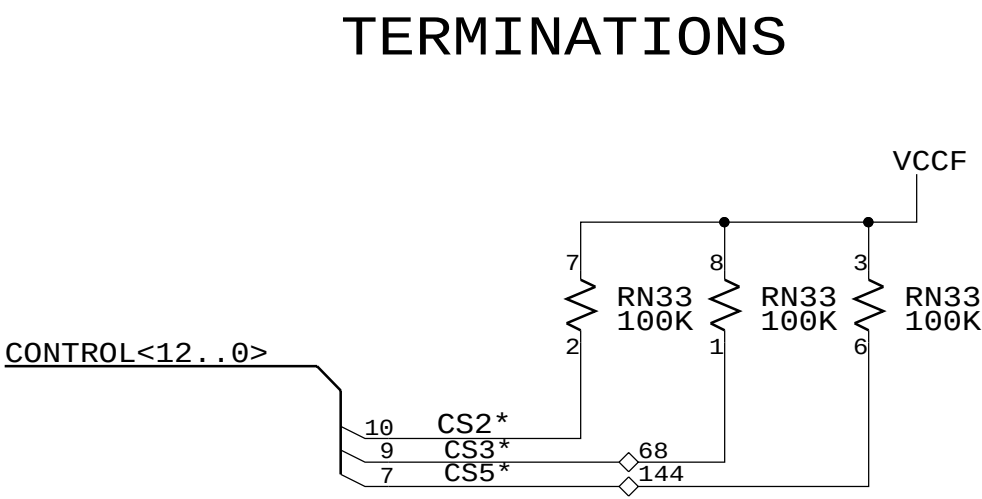
| VERSION  | TEMP   | FREQUENCY | VCC_CORE | R84  | R92             |
|----------|--------|-----------|----------|------|-----------------|
| PXA255A0 | EXT'ND | 400MHZ    | 1.3V     | 113K | 69.8K (DEFAULT) |



VOLTAGE AND FREQUENCY SPECIFICATIONS  
TURBO MODE FREQUENCY (MHZ) VCC (VOLTS)

| MIN  | MAX   | MIN   | TYP | MAX   |
|------|-------|-------|-----|-------|
| 99.5 | 118.0 | 0.95  | 1.0 | 1.155 |
| 99.5 | 199.1 | 0.95  | 1.0 | 1.32  |
| 99.5 | 298.7 | 1.045 | 1.1 | 1.43  |

99.5 398.2 1.235 1.3 1.65



|                                   |             |                |
|-----------------------------------|-------------|----------------|
| SYMBOL TECHNOLOGIES INC.          |             |                |
| Bohemia, New York                 |             |                |
| GEMINI MTM BOARD                  |             |                |
| CORE SUPPLY,BACKUP BATTERY & ACIN |             |                |
| SIZE                              | DWG. NO.    | REV            |
| D                                 | 17-64436-01 | A              |
| Thu Dec 11 15:58:00 2003          |             | SHEET 15 OF 16 |







8

7

6

5

4

3

2

1

# GEMINI SHORT MAIN FLEX

| REVISIONS |      |     |                      |       |     |       |           |
|-----------|------|-----|----------------------|-------|-----|-------|-----------|
| REV       | ZONE | NO. | DESCRIPTION          | E. C. | BY  | APVD. | DATE      |
| A         |      |     | RELEASE PER EDR72497 |       | KJR | RK    | 12/5/2003 |

```

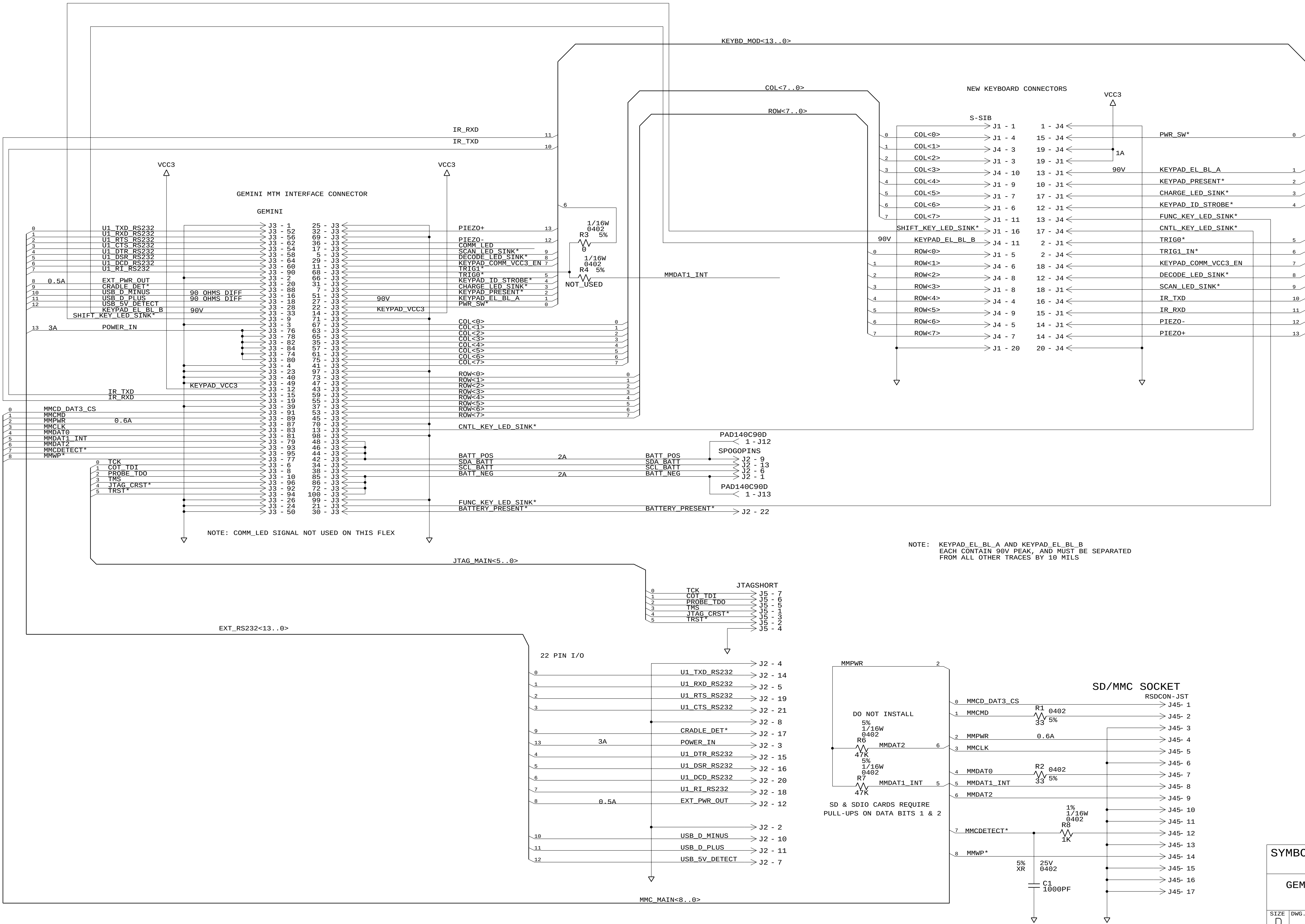
BOM TABLE          (DNI=Do Not Install)
Reference            Build
Designator           01
=====
J12                  DNI
J13                  DNI
J5                   DNI
R4                   DNI
R6                   DNI
R7                   DNI

```

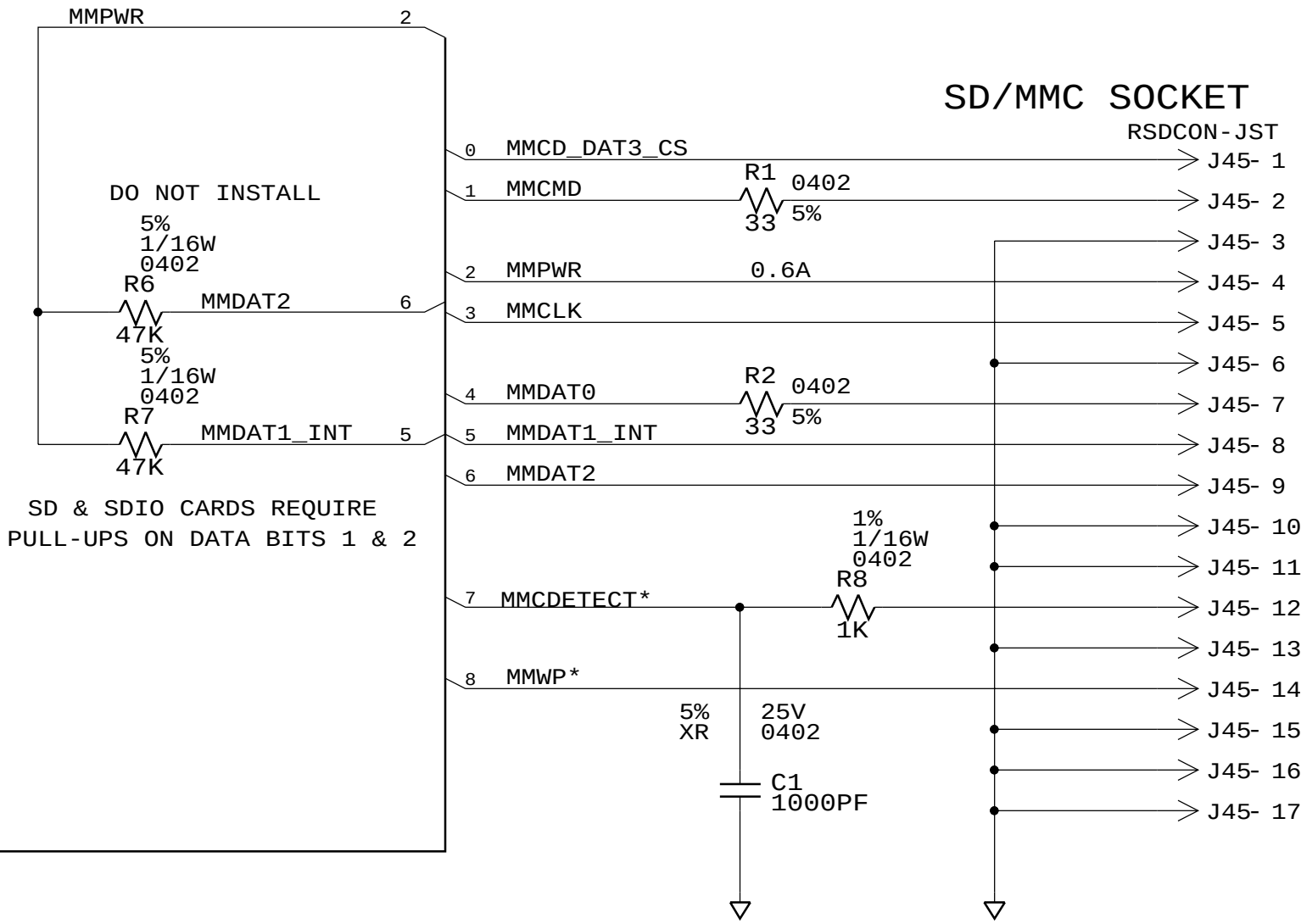
| ITEM                                                                                                                                                                                                                                                       | QTY. | PART NO.                   | DESCRIPTION |                  |           |                 | REMARKS/REF. SYMBOL |                          |                                                   |              |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------|-------------|------------------|-----------|-----------------|---------------------|--------------------------|---------------------------------------------------|--------------|---------|
| PARTS LIST                                                                                                                                                                                                                                                 |      |                            |             |                  |           |                 |                     |                          |                                                   |              |         |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. |      | DIMENSIONS ARE IN INCHES   |             |                  | APPROVALS |                 | DATE                |                          | SYMBOL TECHNOLOGIES INC.<br><br>Bohemia, New York |              |         |
|                                                                                                                                                                                                                                                            |      | UNLESS OTHERWISE SPECIFIED |             |                  | DRAWN     |                 | K. RIVALS           |                          |                                                   |              | 12/5/03 |
|                                                                                                                                                                                                                                                            |      | ..XX                       |             | MM               | +         | .01             | CHECKED             |                          |                                                   |              |         |
|                                                                                                                                                                                                                                                            |      | .XXX                       |             |                  | +         | .005            | ENGINEER            |                          | K. RIVALS                                         |              |         |
|                                                                                                                                                                                                                                                            |      |                            |             |                  |           |                 | 12/5/03             |                          |                                                   |              |         |
|                                                                                                                                                                                                                                                            |      | ANGLES ± 1°                |             | FRACTIONS ± 1/64 |           | MFG. ENG.       |                     |                          |                                                   |              |         |
|                                                                                                                                                                                                                                                            |      | MATERIAL:                  |             |                  |           | PRODUCT QUALITY |                     |                          |                                                   | SIZE D       |         |
| DO NOT SCALE DRAWING                                                                                                                                                                                                                                       |      | FINISH:                    |             | TEST ENG.        |           |                 |                     | DWG. NO.                 |                                                   |              |         |
|                                                                                                                                                                                                                                                            |      |                            |             |                  |           |                 |                     | 17-63293-01              |                                                   | REV A        |         |
|                                                                                                                                                                                                                                                            |      |                            |             |                  |           |                 |                     | Wed Dec 17 09:35:11 2003 |                                                   | SHEET 1 OF 2 |         |



| REVISIONS |      |     |             |  |  |  |      |    |       |
|-----------|------|-----|-------------|--|--|--|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION |  |  |  | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |  |  |  |      |    | DATE  |



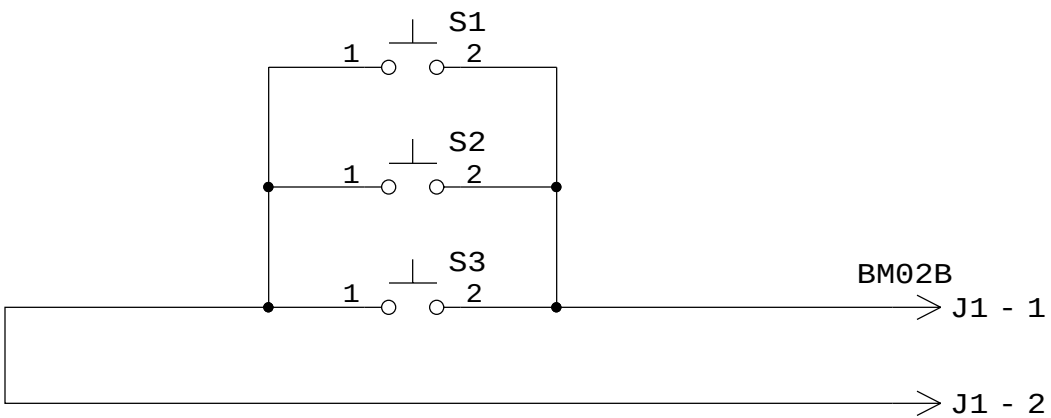
NOTE: KEYPAD\_EL\_BL\_A AND KEYPAD\_EL\_BL\_B  
EACH CONTAIN 90V PEAK, AND MUST BE SEPARATED  
FROM ALL OTHER TRACES BY 10 MILS



| SYMBOL TECHNOLOGIES INC.            |                         |              |
|-------------------------------------|-------------------------|--------------|
| Bohemia, New York                   |                         |              |
| GEMINI SHORT MAIN FLEX<br>SCHEMATIC |                         |              |
| SIZE<br>D                           | DWG. NO.<br>17-63293-01 | REV<br>A     |
| Wed Dec 17 09:35:55 2003            |                         | SHEET 2 OF 2 |



# GEMINI BRICK TRIGGER BOARD



CREATED FROM 17-63945-01 REV A  
CHANGED FROM SINGLE MECHANICAL SWITCH TO THREE SNAP DOMES  
TO IMPROVE FEEL ON LONG TRIGGER BUTTON  
CHANGES FROM REV 1 TO REV A  
RELEASED WITH NO CHANGES

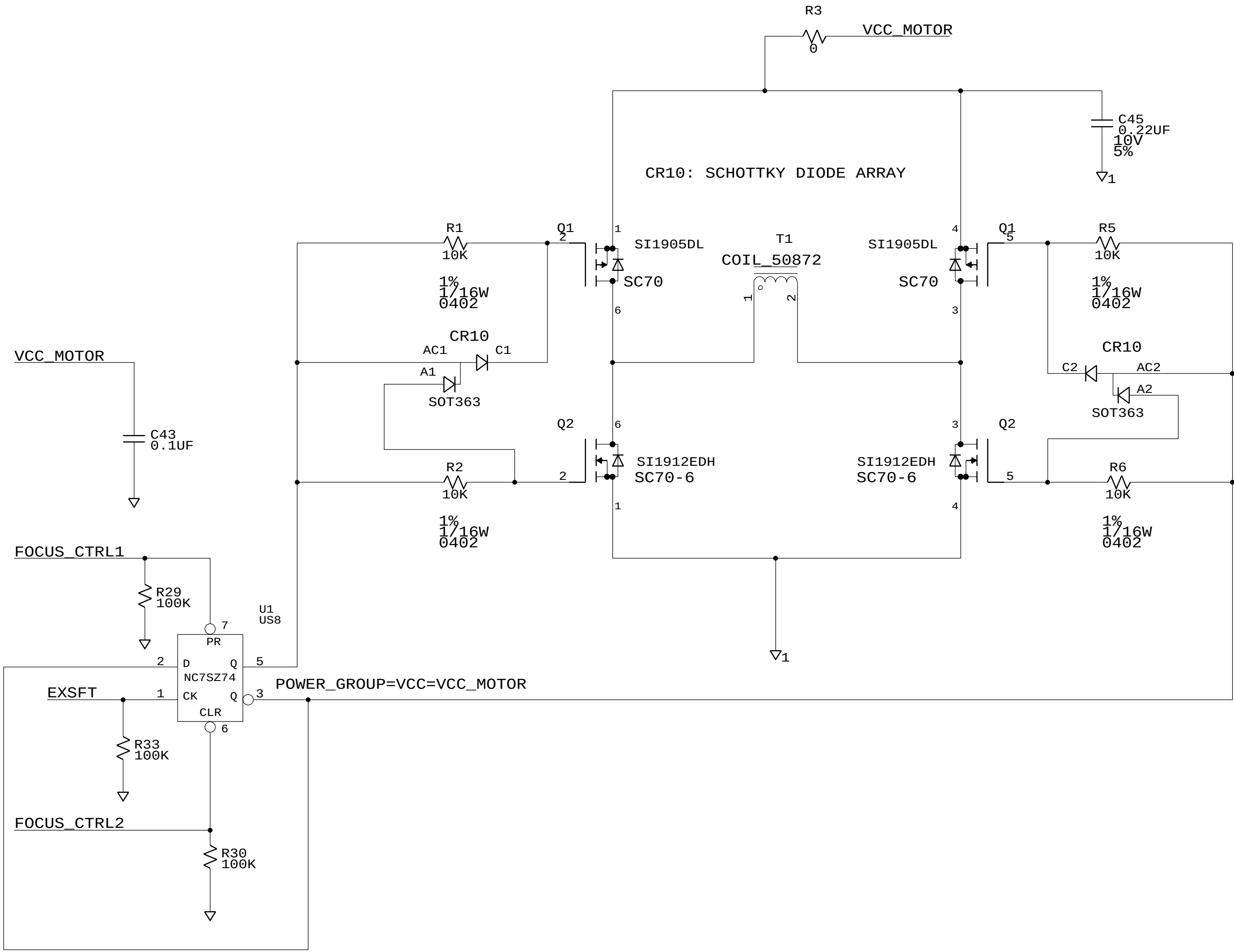
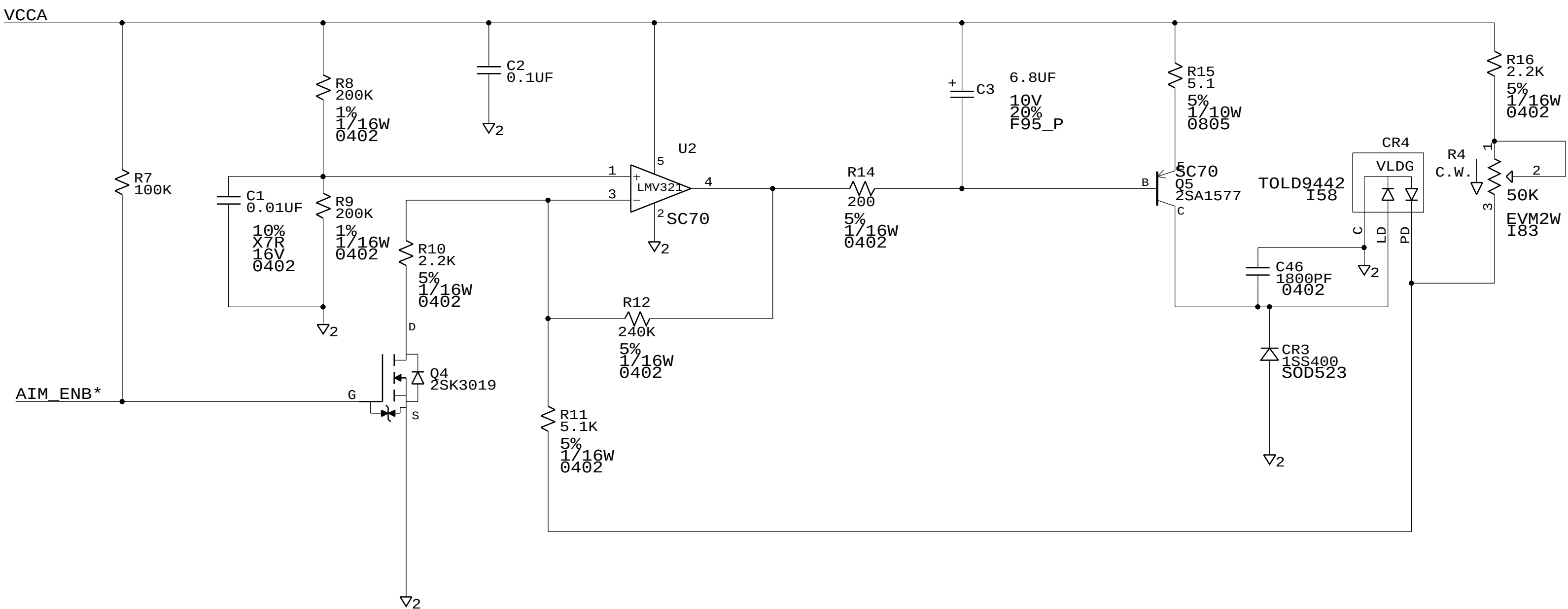
| REVISIONS |      |     |                       |      |     |       |          |
|-----------|------|-----|-----------------------|------|-----|-------|----------|
| REV       | ZONE | NO. | DESCRIPTION           | E.C. | BY  | APVD. | DATE     |
| 1         |      |     | RELEASE PER PPD#78050 |      | KEK | RK    | 12/02/03 |
| A         |      |     | RELEASE PER EDR#72926 |      | KEK | RK    | 02/13/04 |

| ITEM                                                                                                                                                                                                                                                       | QTY. | PART NO. | DESCRIPTION                           | REMARKS/REF. SYMBOL        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------------------------------------|----------------------------|
| PARTS LIST                                                                                                                                                                                                                                                 |      |          |                                       |                            |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. |      |          | DIMENSIONS ARE IN INCHES              | UNLESS OTHERWISE SPECIFIED |
|                                                                                                                                                                                                                                                            |      |          | MM                                    | INCH                       |
|                                                                                                                                                                                                                                                            |      |          | .XX                                   | + .01                      |
|                                                                                                                                                                                                                                                            |      |          | .XXX                                  | + .005                     |
|                                                                                                                                                                                                                                                            |      |          | ANGLES ± 1°                           | FRACTIONS ± 1/64           |
|                                                                                                                                                                                                                                                            |      |          | MATERIAL:                             | PRODUCT QUALITY            |
|                                                                                                                                                                                                                                                            |      |          | FINISH:                               | TEST ENG.                  |
|                                                                                                                                                                                                                                                            |      |          | SIZE D                                | DWG. NO. 17-66336-01       |
|                                                                                                                                                                                                                                                            |      |          |                                       | REV A                      |
|                                                                                                                                                                                                                                                            |      |          | Fri Feb 13 17:46:02 2004 SHEET 1 OF 1 |                            |

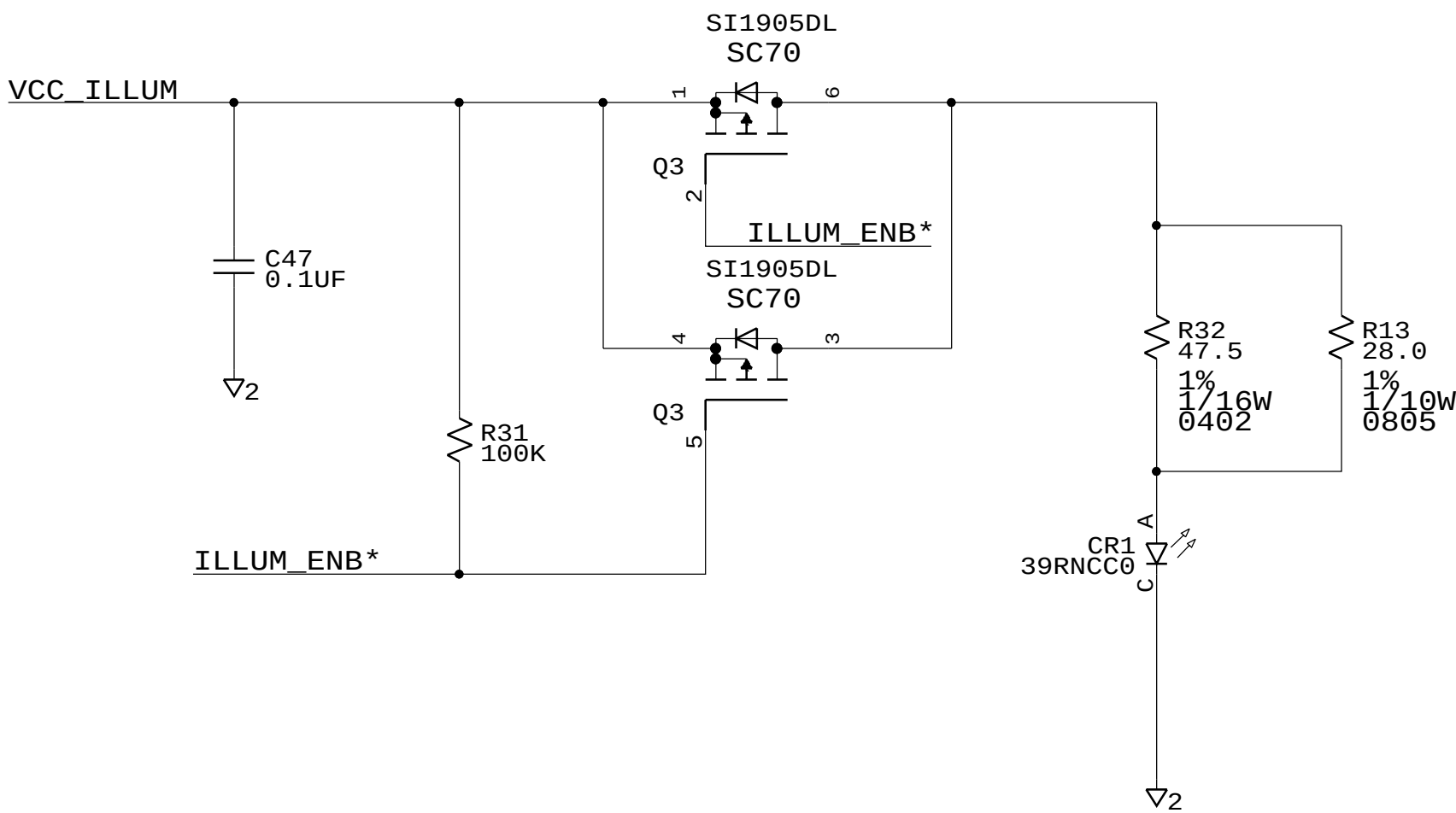


MOTOR DRIVE

LASER DRIVE



ILLUMINATION DRIVE



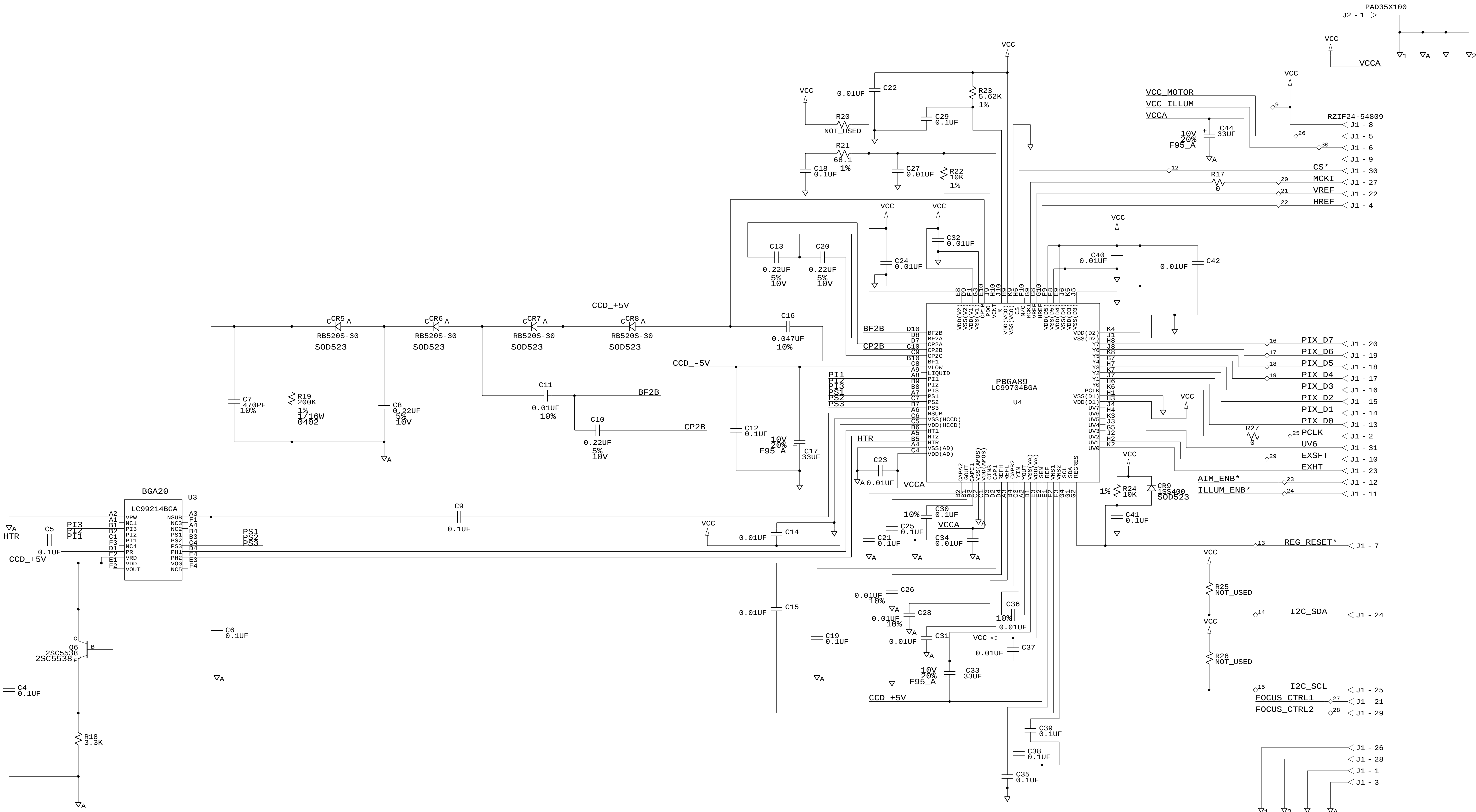
- NOTES:
- ALL RESISTORS ARE 5%, 0402, 1/16W UNLESS STATED OTHERWISE.
  - ALL CAPACITORS ARE X5R OR X7R, 0402, 10% UNLESS STATED OTHERWISE.

- REVISION HISTORY:
- REV. 2:
- A) REMOVED DIODE FROM Q5-B TO GROUND.
  - B) ADDED 1800PF ACROSS LD.
  - C) ADDED CAP ACROSS H-BRIDGE.
- REV. 3:
- A) ADJUST LED R TO 190HMS
  - B) CHANGE R1, R2, R5, R6 TO 10K
  - C) VLD, R16 MADE 2.2K
  - D) R24 MADE 10K
- REV. 4:
- A) CONNECTED U1 & C43 TO VCC\_MOTOR
  - B) REMOVED R28
  - C) CHANGED C15 TO 0.01UF
- REV. A:
- A) CHANGED R8 & R9 TO 200KOHMS.
  - B) CHANGED C1 TO 0.01UF.
  - C) CHANGED R32 TO 47.5OHMS.
  - D) MAKE R25 & R26 DNP.

| ITEM                                                                                                                                                                                                                                                       | QTY. | PART NO. | DESCRIPTION                                                                                                                                                                               | REMARKS/REF.SYMBOL                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PARTS LIST                                                                                                                                                                                                                                                 |      |          |                                                                                                                                                                                           |                                                                                                                                                                                       |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. |      |          | DIMENSIONS ARE IN INCHES<br>UNLESS OTHERWISE SPECIFIED<br>DRAWN BY: T. BIANCULLI<br>CHECKED BY: T. BIANCULLI<br>ENGINEER: T. BIANCULLI<br>MFG. ENG.:<br>MATERIAL:<br>FINISH:<br>TEST ENG. | APPROVALS<br>DATE<br>SYMBOL TECHNOLOGIES INC.<br>Bohemia, New York<br>PROTON SIZED<br>2D CCD IMAGER<br>SIZE DWG. NO. 17-59440-01<br>REV A<br>Tue Feb 18 10:50:46 2003<br>SHEET 1 OF 2 |
| NEXT ASSY                                                                                                                                                                                                                                                  |      |          | USED ON                                                                                                                                                                                   | DO NOT SCALE DRAWING                                                                                                                                                                  |



| REVISIONS |      |     |             |      |    |       |
|-----------|------|-----|-------------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |



| SYMBOL TECHNOLOGIES INC.      |                         |              |  |
|-------------------------------|-------------------------|--------------|--|
| Bohemia, New York             |                         |              |  |
| PROTON SIZED<br>2D CCD IMAGER |                         |              |  |
| SIZE<br>D                     | DWG. NO.<br>17-59440-01 | REV<br>A     |  |
| Wed Feb 12 14:03:14 2003      |                         | SHEET 2 OF 2 |  |



GEMINI  
BRICK OPTION BOARD II  
DUAL RADIO VERSION  
REV: 4

STILL NEEDS AVX SUPERCAP FOOTPRINT

| REVISIONS |      |     |                   |       |      |    |       |
|-----------|------|-----|-------------------|-------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION       |       | E.C. | BY | APVD. |
| 1         |      |     | RELEASE PER PPD # | 76793 |      | DL | RK    |
| 2         |      |     | RELEASE PER PPD # | 77136 |      | DL | RK    |
| 3         |      |     | RELEASE PER PPD # | 77859 |      | DL | RK    |
| 4         |      |     | RELEASE PER PPD # | 78799 |      | DL | RK    |

TABLE OF CONTENTS

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PAGE 2: DSP  
PAGE 3: CODEC AND AUDIO  
PAGE 4: CPLD AND POWER SUPPLIES  
PAGE 5: MICROPHONE PREAMPLIFIERS  
PAGE 6: BLUETOOTH RADIO  
PAGE 7: WAN RADIO INTERFACE  
PAGE 8: CONNECTIONS TO MAIN TERMINAL MODULE

VARIANTS:

24-64188-01: SNAPPER BT RADIO, DSP  
24-64188-02: MARLIN BT RADIO, DSP  
24-64188-03: MARLIN BT RADIO, NO DSP  
24-64188-04: NO BT RADIO, DSP  
24-64188-05: NO BT RADIO, NO DSP

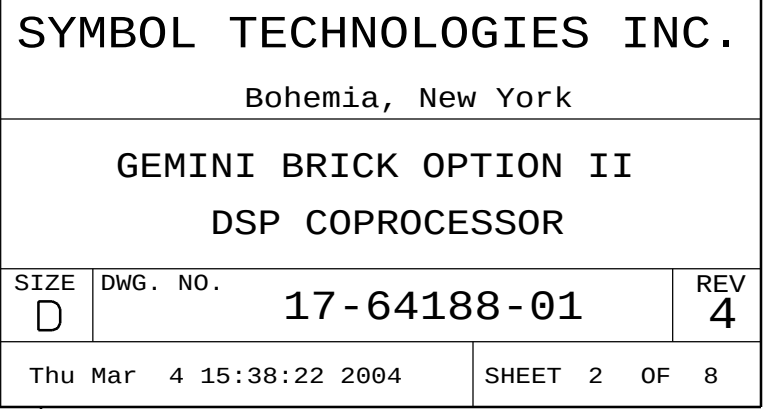
CLOCKS:

SHEET 2: 20MHZ DSP XTAL  
SHEET 3: 24.576MHZ CODEC XTAL  
SHEET 3: 12.288MHZ AC97 CLOCK  
SHEET 4: 3.6864MHZ FROM MTM  
SHEET 4: 32.768KHZ FROM MTM  
SHEET 4: 1.2MHZ LT1761 BUCK REGULATORS

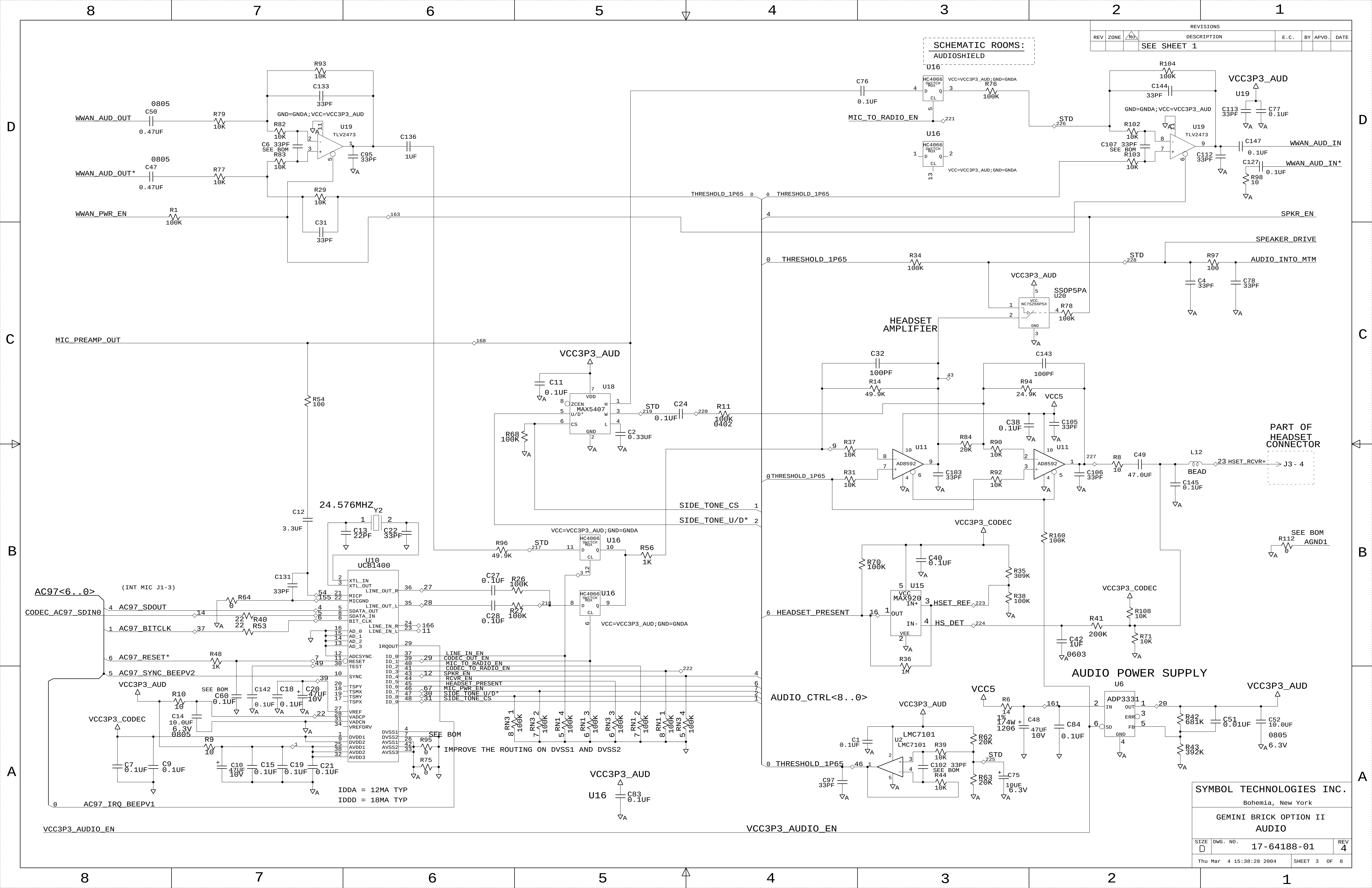
| Reference Designator | BOM TABLE Build 03 | (DNI=Do Not Install) Build 05 | Build 04 | Build 01 | Build 02 |
|----------------------|--------------------|-------------------------------|----------|----------|----------|
| C102                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C107                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C110                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C111                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C112                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C113                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C114                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C115                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C116                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C117                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C118                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C119                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C120                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C121                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C122                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C123                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C124                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C125                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C126                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C127                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C128                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C129                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C130                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C131                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C132                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C133                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C134                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C135                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C136                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C137                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C138                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C139                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C140                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C141                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C142                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C143                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C144                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C145                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C146                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C147                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C148                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C149                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C150                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C151                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C152                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C153                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C154                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C155                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C156                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C157                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C158                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C159                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C160                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C161                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C162                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C163                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C164                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C165                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C166                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
| C167                 | DNI                | DNI                           | DNI      | DNI      | DNI      |
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| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. | DATE |
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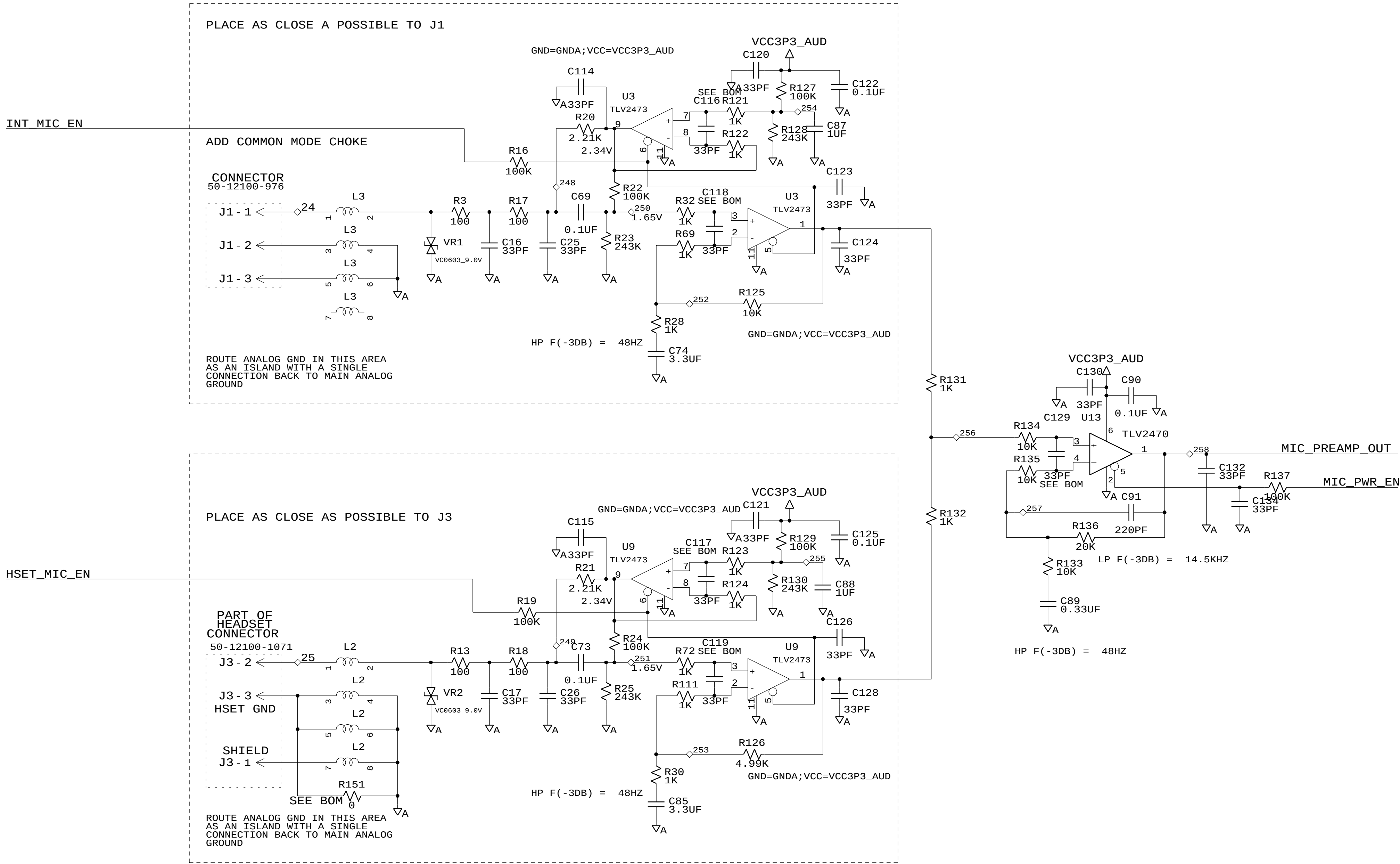








| REVISIONS |      |     |             |      |    |       |
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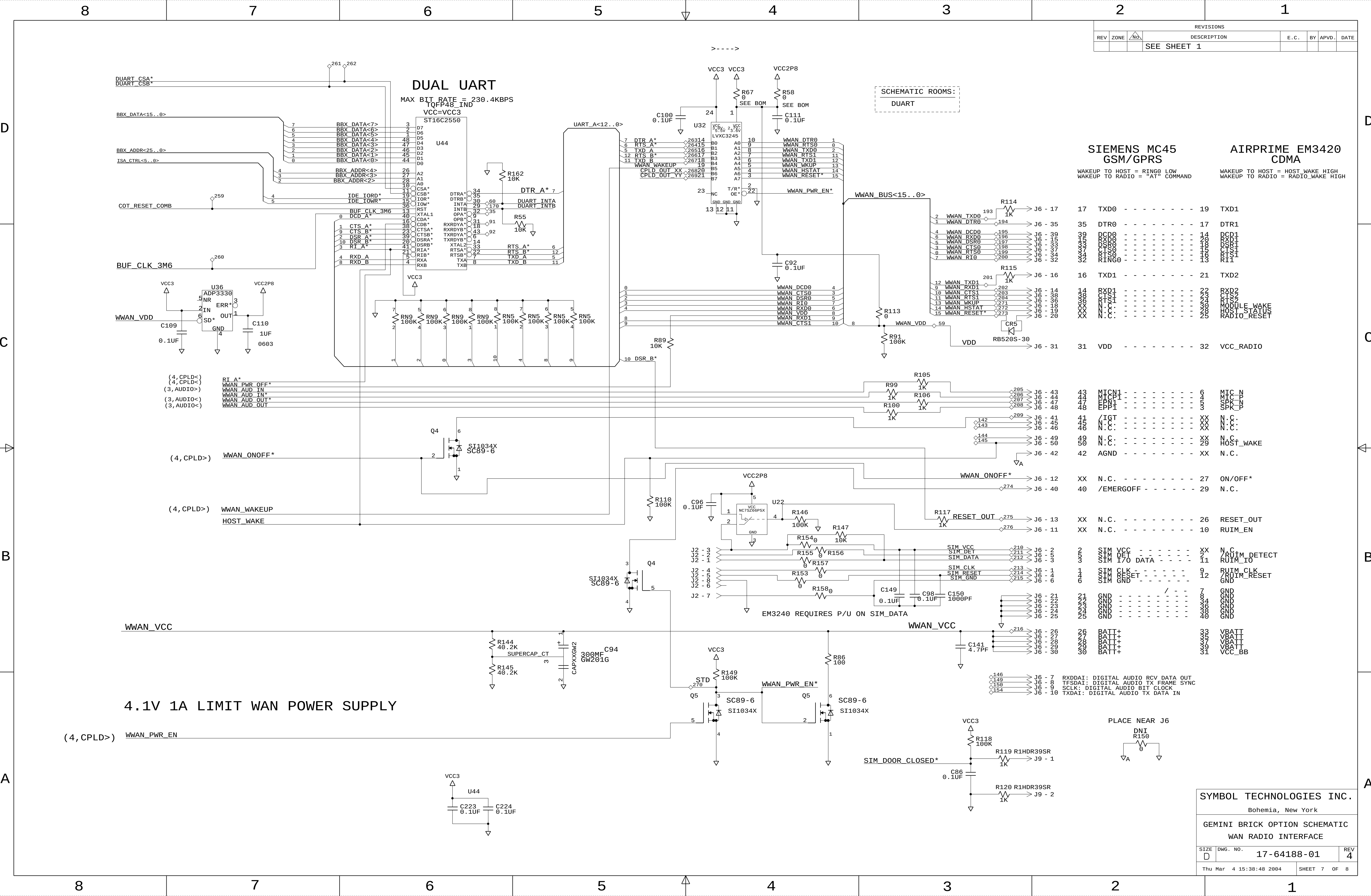


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| SYMBOL TECHNOLOGIES INC.                     |                         |              |  |
| Bohemia, New York                            |                         |              |  |
| GEMINI BRICK OPTION II<br>MICROPHONE PREAMPS |                         |              |  |
| SIZE<br>D                                    | DWG. NO.<br>17-64188-01 | REV<br>4     |  |
| Thu Mar 4 15:38:39 2004                      |                         | SHEET 5 OF 8 |  |











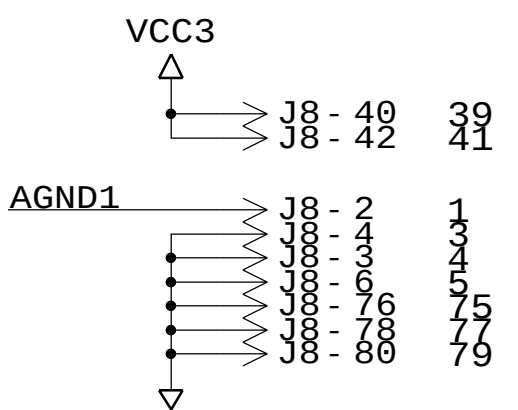
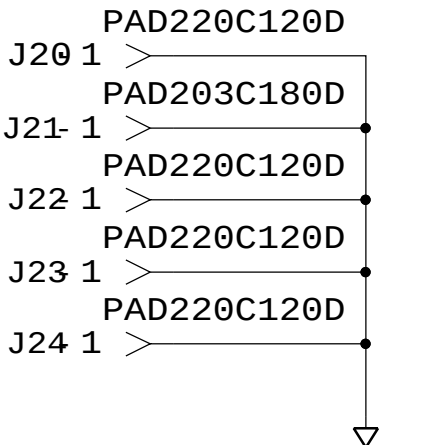
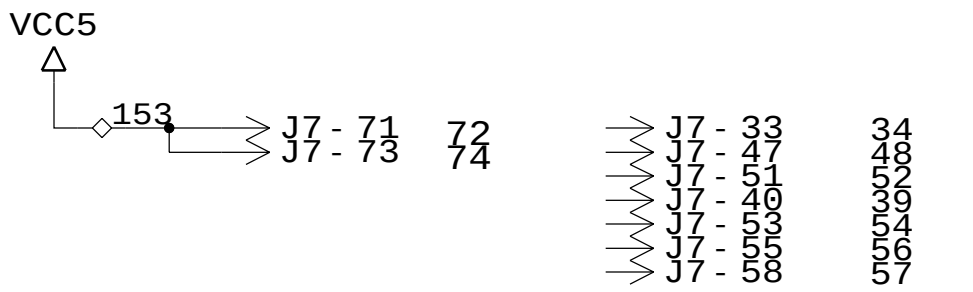
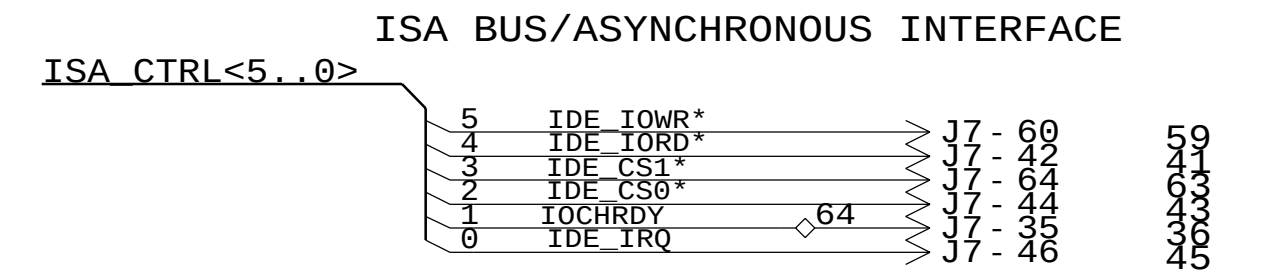
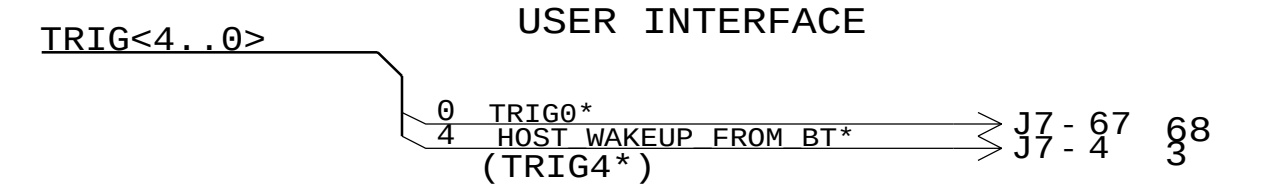
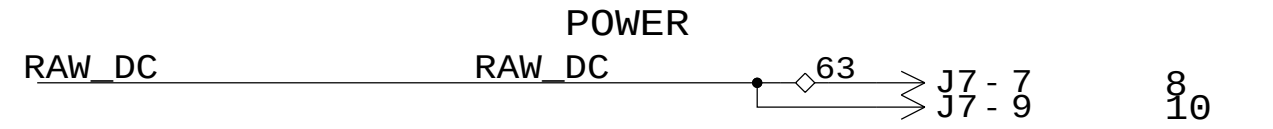
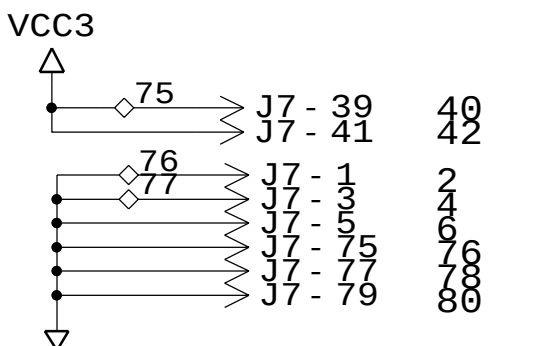
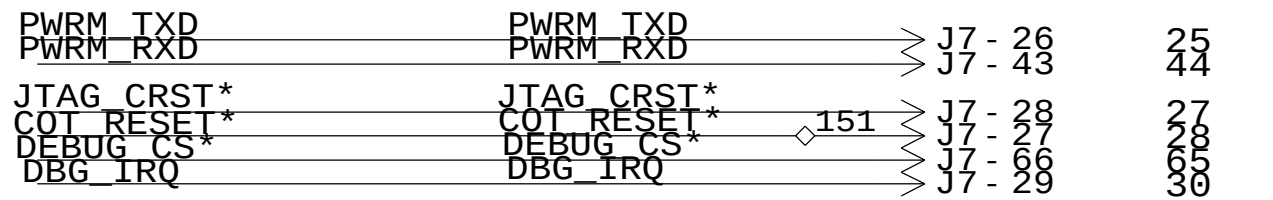
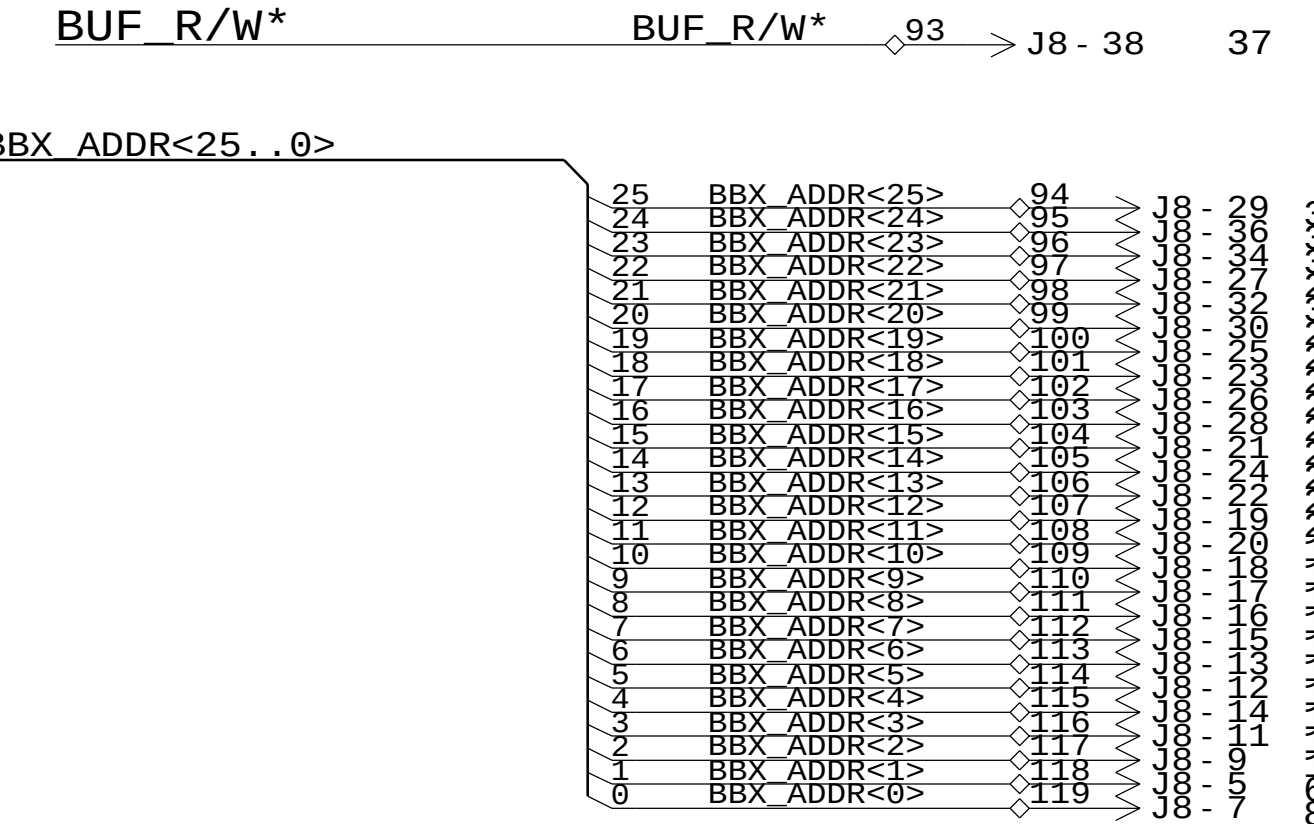
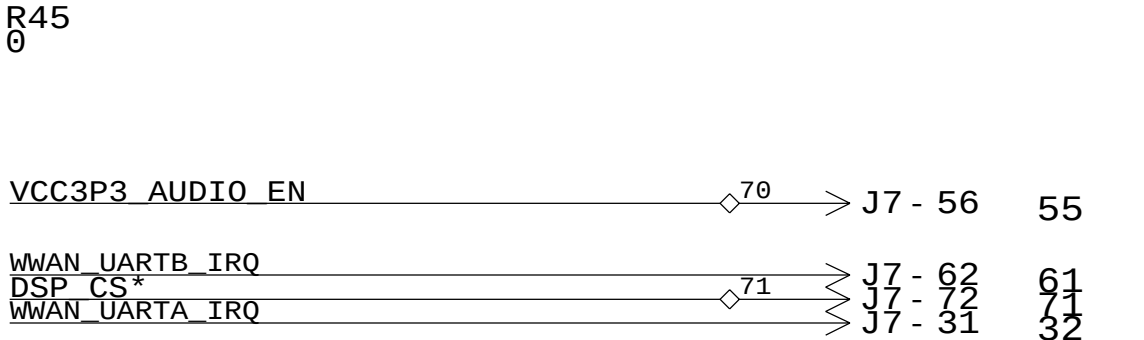
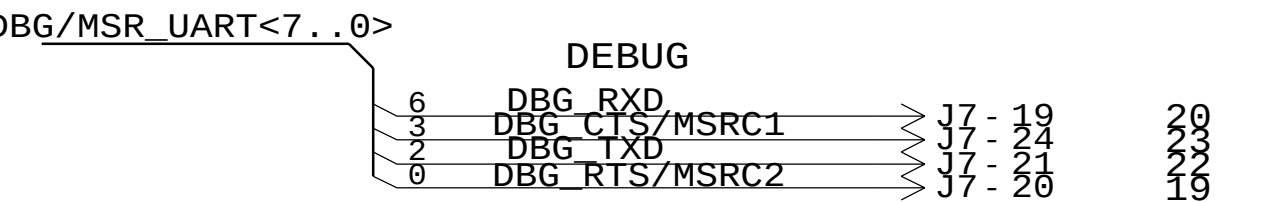
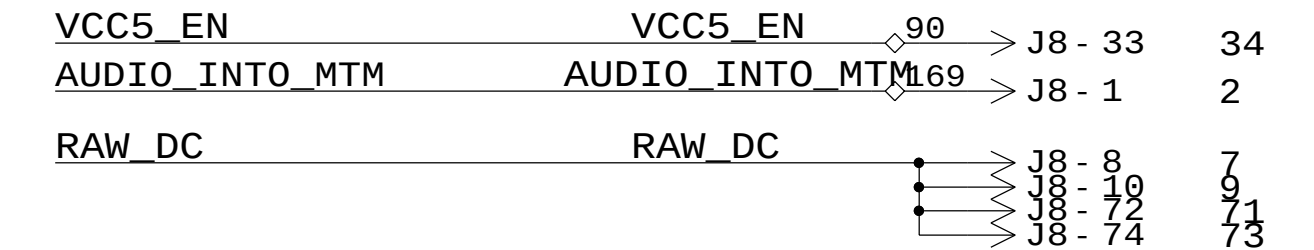
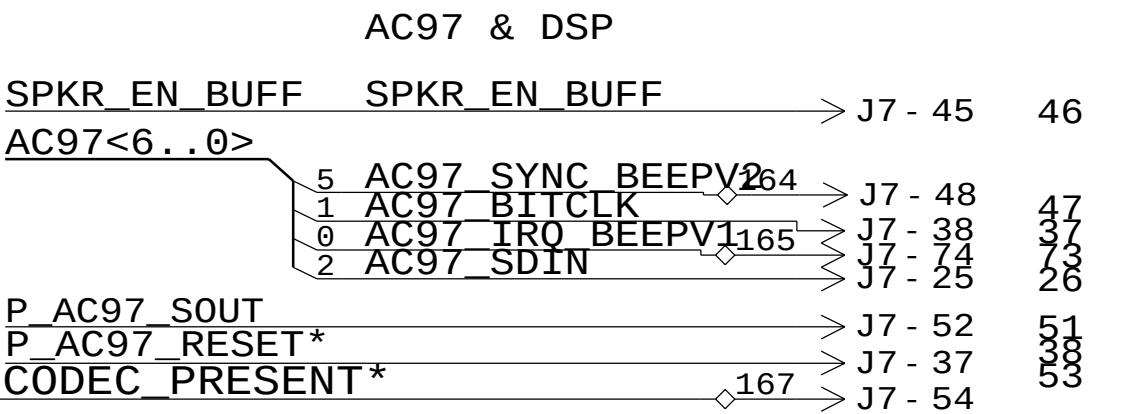
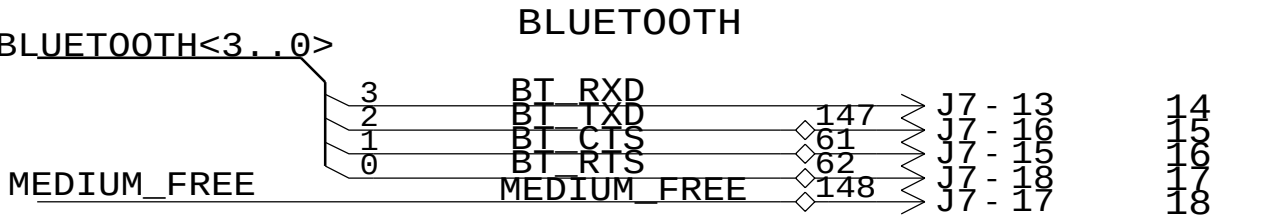
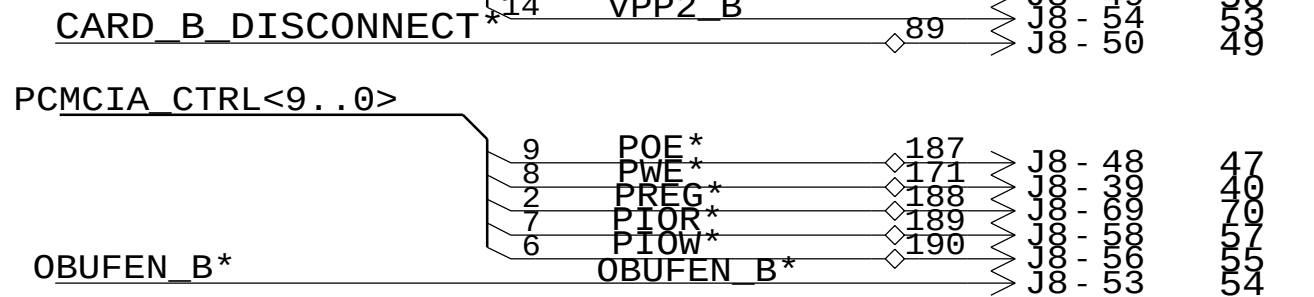
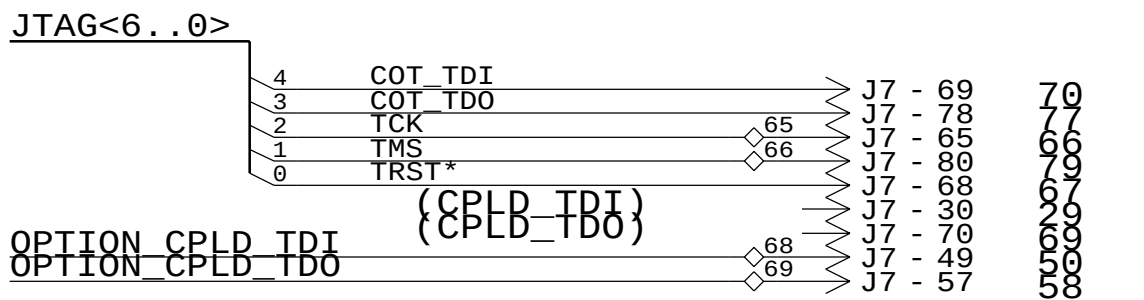
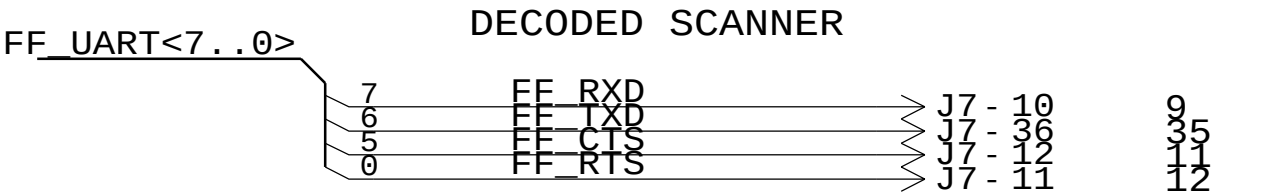
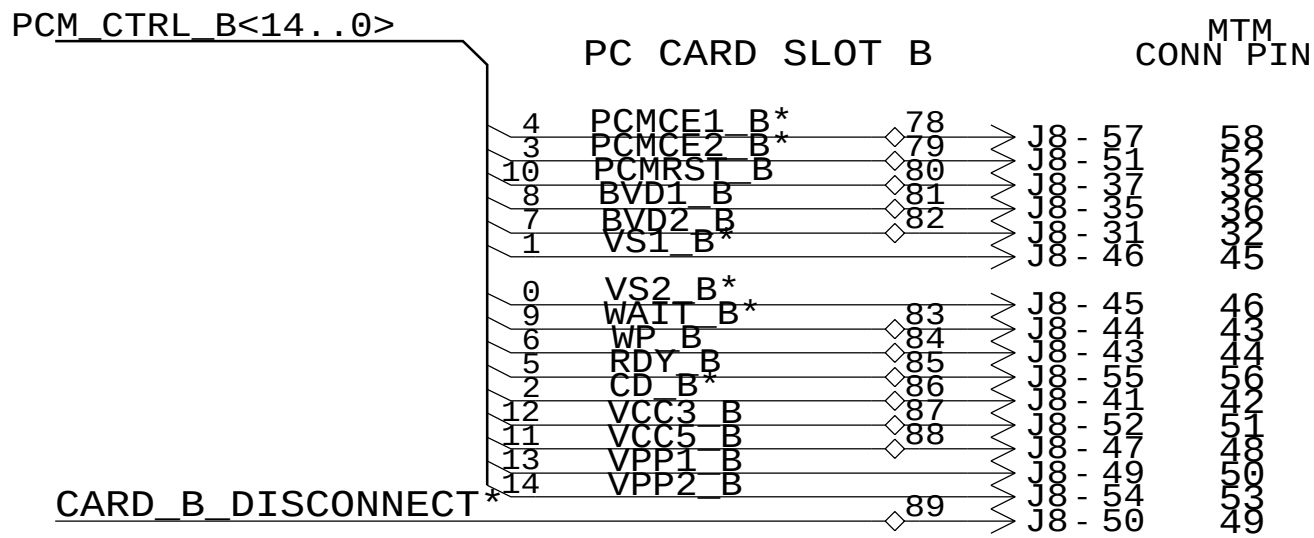
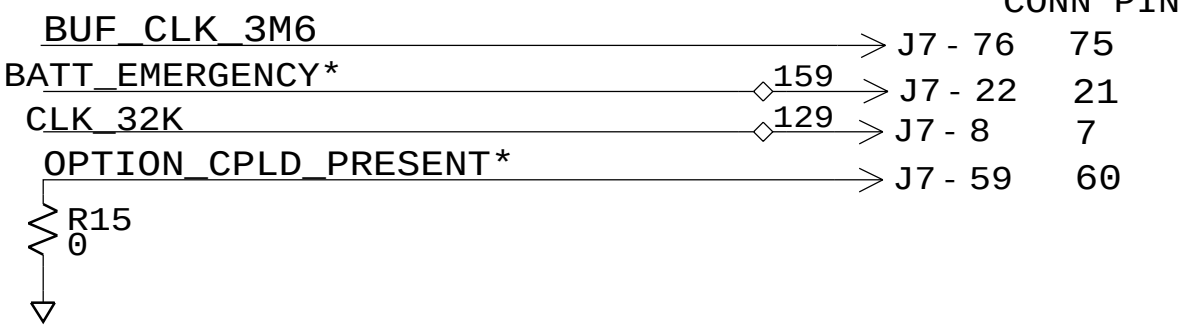
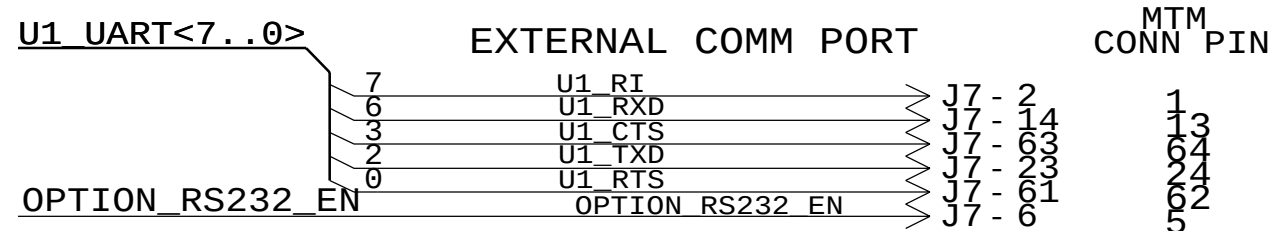
MTM TO OPTION BOARD INTERFACE

| REVISIONS |      |     |             |      |    |       |
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| REV       | ZONE | NO. | DESCRIPTION | E.C. | BY | APVD. |
|           |      |     | SEE SHEET 1 |      |    |       |
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COTULLA SIDE CONNECTOR ON MTM

OPTION CPLD

ASIC CONNECTOR SIDE ON MTM

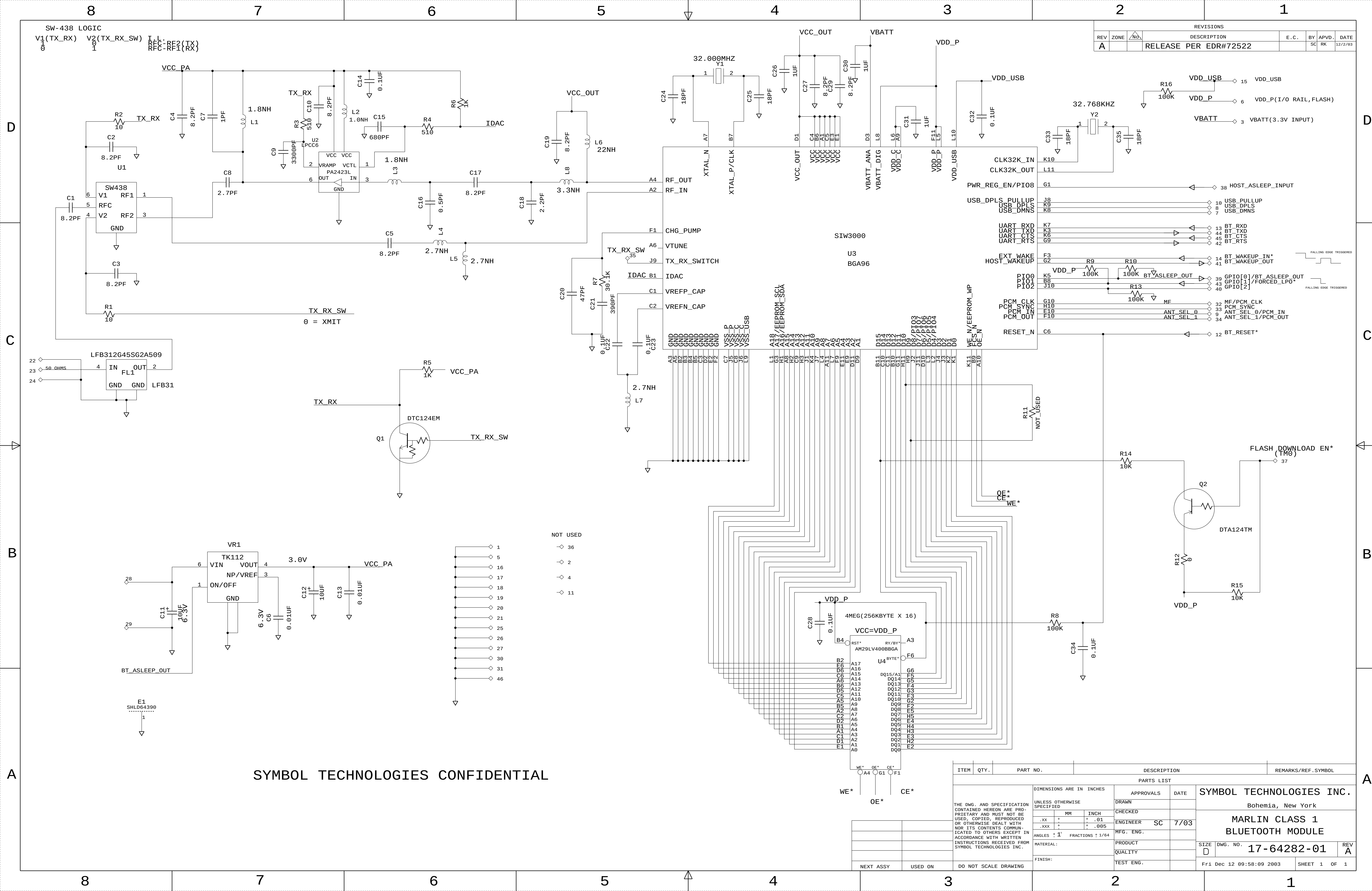


| SYMBOL TECHNOLOGIES INC.      |             |              |  |
|-------------------------------|-------------|--------------|--|
| Bohemia, New York             |             |              |  |
| GEMINI BRICK OPTION SCHEMATIC |             |              |  |
| MTM TO OPTION BD INTERFACE    |             |              |  |
| SIZE                          | DWG. NO.    | REV          |  |
| D                             | 17-64188-01 | 4            |  |
| Thu Mar 4 15:38:54 2004       |             | SHEET 8 OF 8 |  |













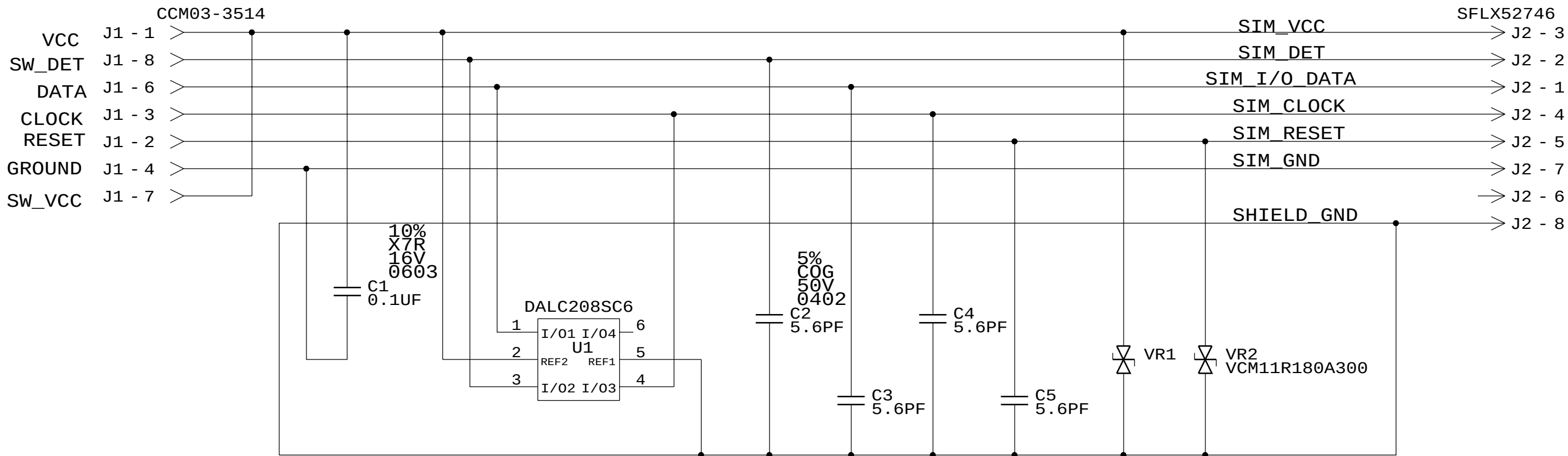
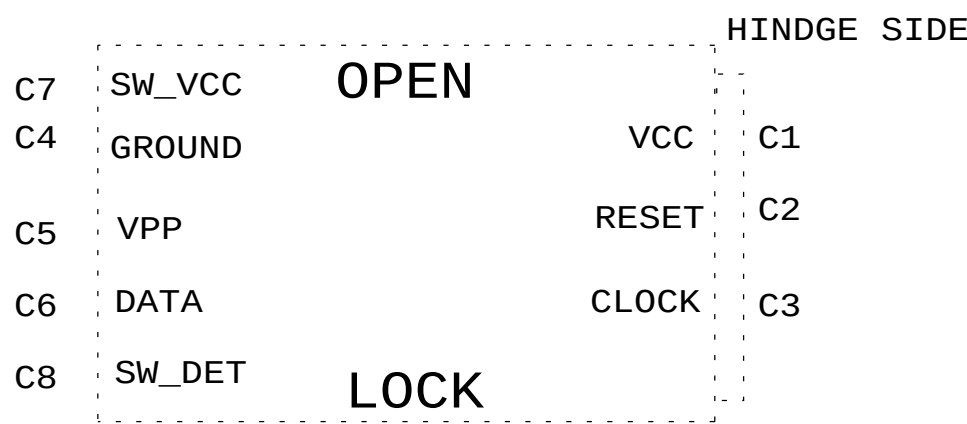


| REVISIONS |      |     |                       |      |    |       |
|-----------|------|-----|-----------------------|------|----|-------|
| REV       | ZONE | NO. | DESCRIPTION           | E.C. | BY | APVD. |
| 1         |      |     | RELEASE PER PPD 76262 |      | CH | RK    |
| 2         |      |     | RELEASE PER PPD 77479 |      | CH | RK    |

REV2:  
1) REMOVED SPLIT PCB ARTWORK THAT  
FUNCTIONED AS A SWITCH FOR SIM DETECT  
2) REMOVED ZERO OHM RESISTOR THAT BYPASSED  
SPLIT PCB ARTWORK

## SIM SOCKET

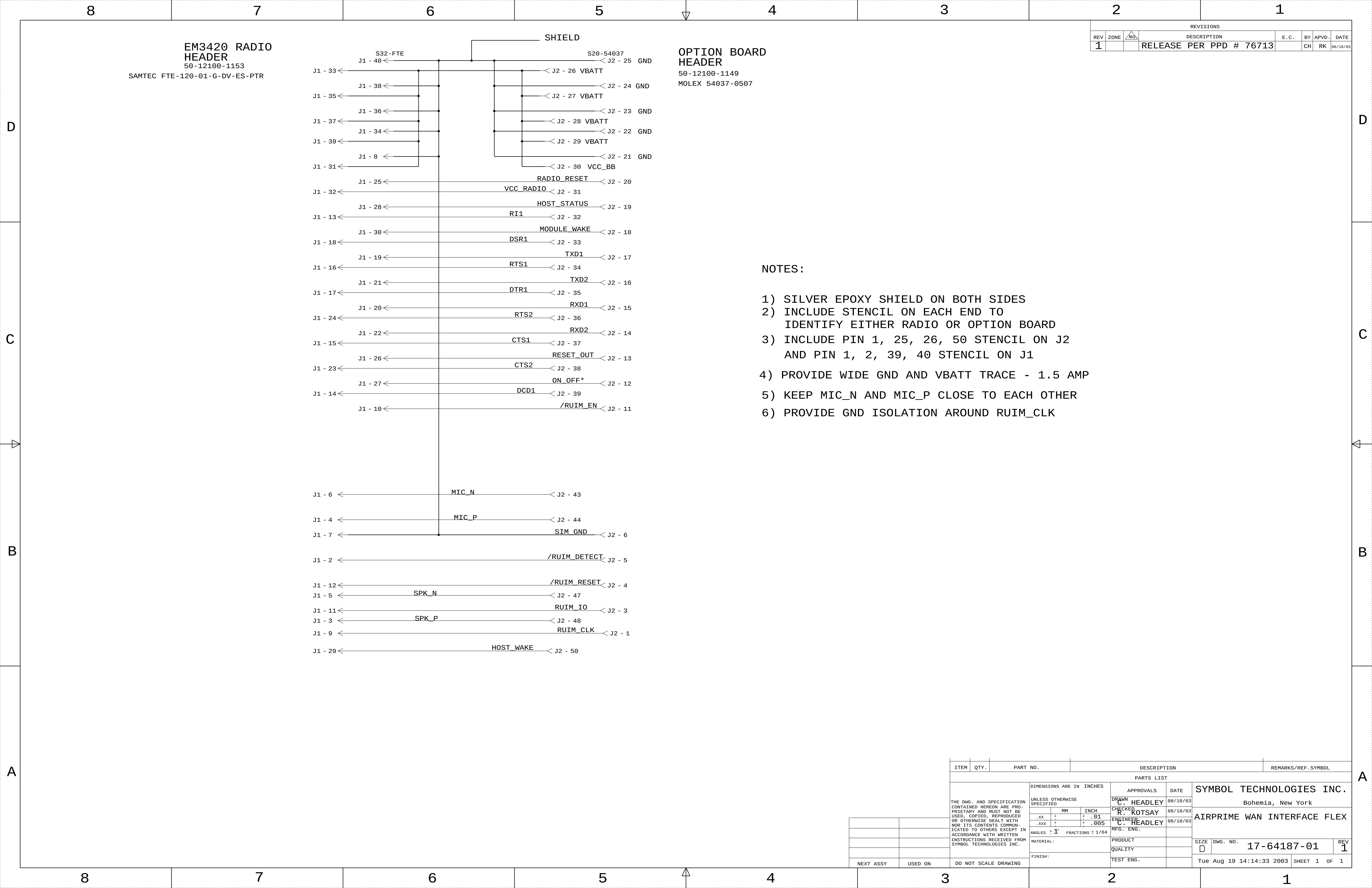
50-12100-1160



2. BOTTOM SIDE IS GROUNDED COPPER.  
3. SIM\_CR\_CLOCK IS ISOLATED FROM OTHER SIGNALS AND GROUND.

| ITEM                                                                                                                                                                                                                                                       | QTY. | PART NO. | DESCRIPTION                                                                                                                                                    | REMARKS/REF.SYMBOL                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| PARTS LIST                                                                                                                                                                                                                                                 |      |          |                                                                                                                                                                |                                                                                          |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. |      |          | DIMENSIONS ARE IN INCHES<br>UNLESS OTHERWISE SPECIFIED<br>DRAWN: C. HEADLEY<br>CHECKED: R. KOTSAY<br>ENGINEER: C. HEADLEY<br>MFG. ENG.<br>MATERIAL:<br>FINISH: | APPROVALS<br>DATE<br>07/28/03<br>07/28/03<br>07/28/03<br>PRODUCT<br>QUALITY<br>TEST ENG. |
| NEXT ASSY                                                                                                                                                                                                                                                  |      |          | USED ON                                                                                                                                                        | DO NOT SCALE DRAWING                                                                     |
| SIZE D                                                                                                                                                                                                                                                     |      |          | DWG. NO. 17-62643-01                                                                                                                                           | REV 2                                                                                    |
| Thu Oct 16 09:07:15 2003                                                                                                                                                                                                                                   |      |          | SHEET 1                                                                                                                                                        | OF 1                                                                                     |







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REV

ZONE

NO.

A

DESCRIPTION

RELEASE PER EDR72498

E.C.

BY

APVD.

DATE

KJR

K. KOTRAY

12/05/03

GEMINI

SHORT

KEYFLEX

28-KEY

REFER TO DOCUMENT NUMBER 70-63878-01 FOR KEYBOARD CONFIGURATIONS AND ID'S. FOR EACH NEW KEYBOARD VARIATION, BE SURE TO UPDATE THIS DOCUMENTATION SO THERE ARE NO DUPLICATE KEYBOARD ID'S.

Reference Designator

Build

01

01

02

03

04

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REVISIONS

| REV | ZONE | NO. | DESCRIPTION          | E.C. | BY  | APVD.      | DATE     |
|-----|------|-----|----------------------|------|-----|------------|----------|
| A   |      |     | RELEASE PER EDR72498 |      | KJR | K. HOFFMAN | 12/05/03 |

# GEMINI SHORT KEYFLEX 28-KEY

REFER TO DOCUMENT NUMBER 70-63878-01 FOR KEYBOARD CONFIGURATIONS AND ID'S. FOR EACH NEW KEYBOARD VARIATION, BE SURE TO UPDATE THIS DOCUMENTATION SO THERE ARE NO DUPLICATE KEYBOARD ID'S.

Reference Designator

Build

BOM TABLE (DNI=Do Not Install)

|    |     |
|----|-----|
| 01 | DNI |
| 02 | DNI |
| 03 | DNI |
| 04 | DNI |
| 05 | DNI |
| 06 | DNI |
| 07 | DNI |
| 08 | DNI |
| 09 | DNI |
| 10 | DNI |
| 11 | DNI |
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| 19 | DNI |
| 20 | DNI |
| 21 | DNI |
| 22 | DNI |
| 23 | DNI |
| 24 | DNI |
| 25 | DNI |
| 26 | DNI |
| 27 | DNI |
| 28 | DNI |

| ITEM                                                                                                                                                                                                                                                       | QTY.                       | PART NO. | DESCRIPTION                          | REMARKS/REF.SYMBOL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------|--------------------------------------|--------------------|
| PARTS LIST                                                                                                                                                                                                                                                 |                            |          |                                      |                    |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. | DIMENSIONS ARE IN INCHES   |          | APPROVALS                            | DATE               |
|                                                                                                                                                                                                                                                            | UNLESS OTHERWISE SPECIFIED |          | DRAWN K. RIVALS                      | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | CHECKED                              |                    |
|                                                                                                                                                                                                                                                            |                            |          | ENGINEER K. RIVALS                   | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | MFG. ENG. P. IASSO                   | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | PRODUCT G. STILL                     | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | QUALITY B. WATSON                    | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | TEST ENG. D. REED                    | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | SIZE DWG. NO. 17-65573-01 REV A      |                    |
|                                                                                                                                                                                                                                                            |                            |          | Wed Jan 7 14:11:10 2004 SHEET 1 OF 3 |                    |

|           |         |                      |
|-----------|---------|----------------------|
| NEXT ASSY | USED ON | DO NOT SCALE DRAWING |
|-----------|---------|----------------------|

8 7 6 5 4 3 2 1

A B C D

A B C D

8 7 6 5 4 3 2 1

REVISIONS

| REV | ZONE | NO. | DESCRIPTION          | E.C. | BY  | APVD.      | DATE     |
|-----|------|-----|----------------------|------|-----|------------|----------|
| A   |      |     | RELEASE PER EDR72498 |      | KJR | K. HOFFMAN | 12/05/03 |

# GEMINI SHORT KEYFLEX 28-KEY

REFER TO DOCUMENT NUMBER 70-63878-01 FOR KEYBOARD CONFIGURATIONS AND ID'S. FOR EACH NEW KEYBOARD VARIATION, BE SURE TO UPDATE THIS DOCUMENTATION SO THERE ARE NO DUPLICATE KEYBOARD ID'S.

Reference Designator

Build

BOM TABLE (DNI=Do Not Install)

|    |     |
|----|-----|
| 01 | DNI |
| 02 | DNI |
| 03 | DNI |
| 04 | DNI |
| 05 | DNI |
| 06 | DNI |
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| 25 | DNI |
| 26 | DNI |
| 27 | DNI |
| 28 | DNI |

| ITEM                                                                                                                                                                                                                                                       | QTY.                       | PART NO. | DESCRIPTION                          | REMARKS/REF.SYMBOL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------|--------------------------------------|--------------------|
| PARTS LIST                                                                                                                                                                                                                                                 |                            |          |                                      |                    |
| THE DWG. AND SPECIFICATION CONTAINED HEREON ARE PROPRIETARY AND MUST NOT BE USED, COPIED, REPRODUCED OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM SYMBOL TECHNOLOGIES INC. | DIMENSIONS ARE IN INCHES   |          | APPROVALS                            | DATE               |
|                                                                                                                                                                                                                                                            | UNLESS OTHERWISE SPECIFIED |          | DRAWN K. RIVALS                      | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | CHECKED                              |                    |
|                                                                                                                                                                                                                                                            |                            |          | ENGINEER K. RIVALS                   | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | MFG. ENG. P. IASSO                   | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | PRODUCT G. STILL                     | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | QUALITY B. WATSON                    | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | TEST ENG. D. REED                    | 12/5/03            |
|                                                                                                                                                                                                                                                            |                            |          | SIZE DWG. NO. 17-65573-01 REV A      |                    |
|                                                                                                                                                                                                                                                            |                            |          | Wed Jan 7 14:11:10 2004 SHEET 1 OF 3 |                    |

|           |         |                      |
|-----------|---------|----------------------|
| NEXT ASSY | USED ON | DO NOT SCALE DRAWING |
|-----------|---------|----------------------|

8 7 6 5 4 3 2 1

A B C D

A B C D

**GEMINI SHORT KEYFLEX 28-KEY**

D

C

B

A

8 7 6 5 4 3 2 1

REFER TO DOCUMENT NUMBER 70-63878-01 FOR KEYBOARD CONFIGURATIONS AND ID'S. FOR EACH NEW KEYBOARD VARIATION, BE SURE TO UPDATE THIS DOCUMENTATION SO THERE ARE NO DUPLICATE KEYBOARD ID'S.

| REVISIONS |      |      |                      |      |     |            |          |  |
|-----------|------|------|----------------------|------|-----|------------|----------|--|
| REV       | ZONE | /NO. | DESCRIPTION          | E.C. | BY  | APVD.      | DATE     |  |
| A         |      |      | RELEASE PER EDR72498 |      | KJR | H. HOFFMAN | 12/05/03 |  |

Reference Designator Build

| BOM TABLE |     | (DNI=Do Not Install) |
|-----------|-----|----------------------|
| 11        | DNI |                      |
| 12        | DNI |                      |
| 13        | DNI |                      |
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| 97        | DNI |                      |
| 98        | DNI |                      |
| 99        | DNI |                      |
| 100       | DNI |                      |

| ITEM       | QTY. | PART NO.                  | DESCRIPTION | REMARKS/REF.SYMBOL |
|------------|------|---------------------------|-------------|--------------------|
| PARTS LIST |      |                           |             |                    |
|            |      | APPROVALS                 |             | DATE               |
|            |      | DRAWN K. RIVALS           |             | 12/5/03            |
|            |      | CHECKED K. RIVALS         |             | 12/5/03            |
|            |      | ENGINEER P. IASSO         |             | 12/5/03            |
|            |      | MFG. ENG. G. STILL        |             | 12/5/03            |
|            |      | PRODUCT QUALITY B. WATSON |             | 12/5/03            |
|            |      | TEST ENG. D. REED         |             | 12/5/03            |
|            |      | FINISH:                   |             |                    |
|            |      | DO NOT SCALE DRAWING      |             |                    |
|            |      | NEXT ASSY USED ON         |             |                    |

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UNLESS OTHERWISE SPECIFIED

| DIMENSIONS ARE IN INCHES |        |
|--------------------------|--------|
| MM                       | INCH   |
| .XX +                    | + .01  |
| .XXX +                   | + .005 |

ANGLES ± 1° FRACTIONS ± 1/64

MATERIAL:

SYMBOL TECHNOLOGIES INC.  
Bohemia, New York

GEMINI SHORT KEYFLEX  
28-KEY

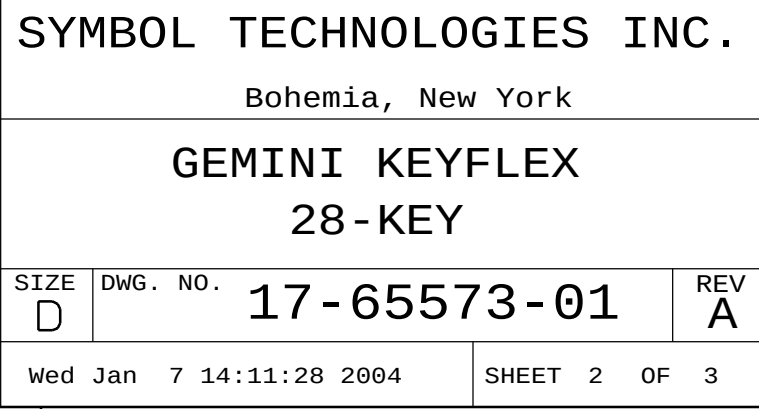
SIZE D DWG. NO. 17-65573-01 REV A

Wed Jan 7 14:11:10 2004 SHEET 1 OF 3

[illegible]



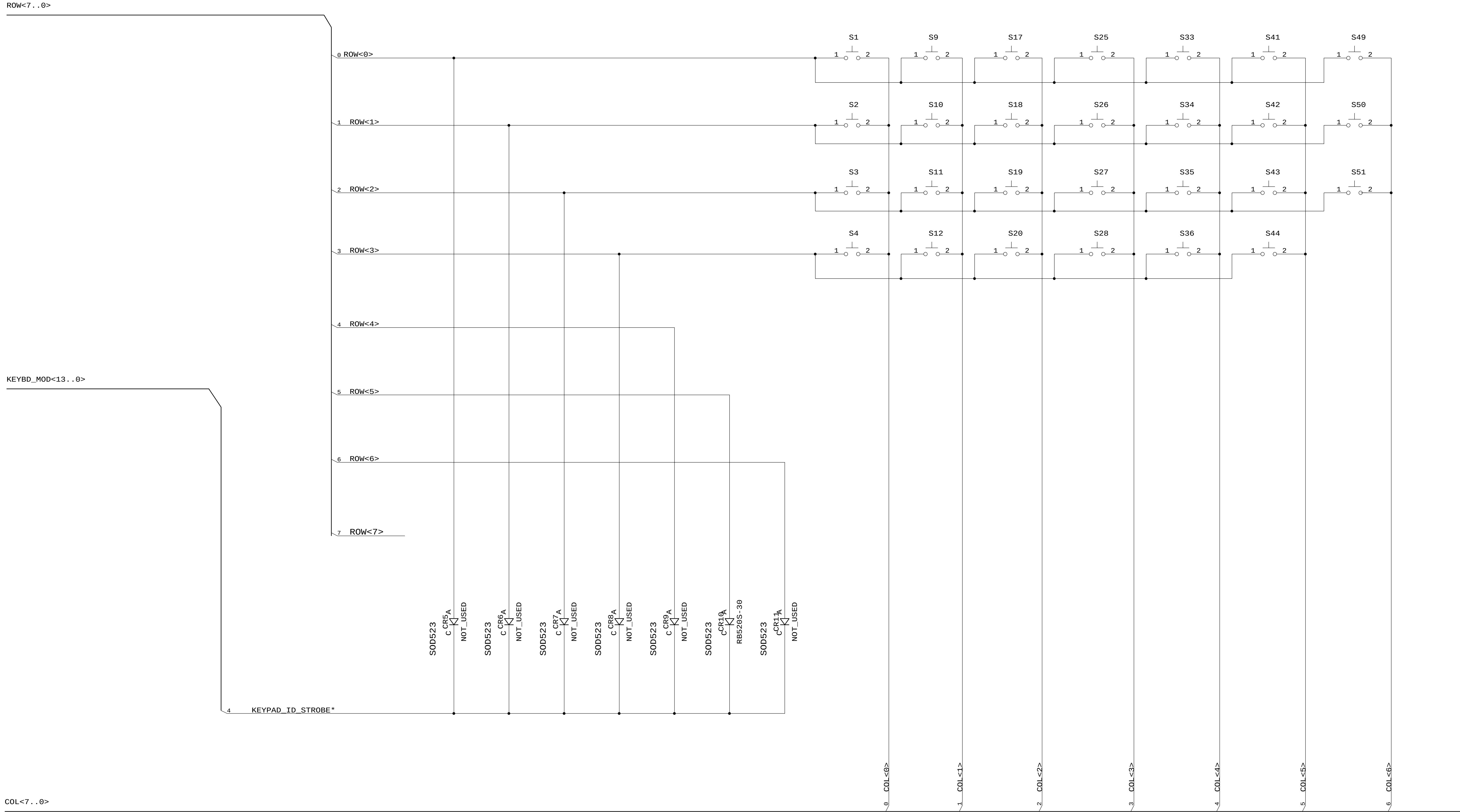
| REVISIONS |      |                                                                                   |             |      |    |       |      |
|-----------|------|-----------------------------------------------------------------------------------|-------------|------|----|-------|------|
| REV       | ZONE |  | DESCRIPTION | E.C. | BY | APVD. | DATE |
|           |      |                                                                                   | SEE SHEET 1 |      |    |       |      |





KEYFLEX 7X4 MATRIX  
(27 KEYS)

| REVISIONS |      |     |             |  |      |      |
|-----------|------|-----|-------------|--|------|------|
| REV       | ZONE | NO. | DESCRIPTION |  | E.C. | DATE |
|           |      |     | SEE SHEET 1 |  |      |      |



|                          |                         |              |  |
|--------------------------|-------------------------|--------------|--|
| SYMBOL TECHNOLOGIES INC. |                         |              |  |
| Bohemia, New York        |                         |              |  |
| GEMINI KEYFLEX<br>28-KEY |                         |              |  |
| SIZE<br>D                | DWG. NO.<br>17-65573-01 | REV<br>A     |  |
| Wed Jan 7 14:11:30 2004  |                         | SHEET 3 OF 3 |  |