

# Technica House

## MFI-5GXM/ MILLENNIU-I

### Ver1.0 Schematics

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TECHNICA HOUSE INCORPORATION

**TECHNICA CONFIDENTIAL**

4F.No.9, Lane 235, Pao Chiao RD.,  
Hsin Tien City, Taipei Taiwan

Title  
BLOCK DIAGRAM

Size  
A

Document Number  
MFPM133

Rev  
0.9

Date: Monday, June 17, 2002

Sheet 1

29 of



10,11 DQM[7..0]

RPAK ORDER CHANGED  
FOR ROUTINGRPAK ORDER CHANGED  
FOR ROUTING

U1C

GX8PGA

SDRAM

D22 MD0

MD1 B23 MD1

DQM0 MD1 A24 MD2

DQM1 MD2 C25 MD3

DQM2 MD3 D24 MD4

DQM3 MD4 E25 MD5

DQM4 MD5 F26 MD6

DQM5 MD6 H24 MD8

DQM6 MD8 H26 MD9

DQM7 MD9 J25 MD10

MD10 L24 MD11

MD11 L26 MD12

MD12 M25 MD13

MD13 N24 MD14

MD14 N26 MD15

MD15 AF22 MD16

MD16 AE21 MD17

MD17 AD19 MD18

MD18 AE18 MD19

MD19 AE16 MD20

MD20 AD15 MD22

MD21 AE15 MD23

MD22 AE14 MD24

MD23 AE13 MD25

MD24 AD12 MD26

MD25 AE11 MD27

MD26 AD9 MD29

MD27 AF9 MD30

MD28 AE6 MD31

MD29 C23 MD32

MD30 B24 MD33

MD31 C24 MD34

MD32 C26 MD35

MD33 D25 MD36

MD34 E26 MD37

MD35 F24 MD38

MD36 F26 MD39

MD37 H25 MD40

MD38 J24 MD41

MD39 J26 MD42

MD40 L25 MD43

MD41 M24 MD44

MD42 M26 MD45

MD43 N25 MD46

MD44 P24 MD47

MD45 AD21 MD48

MD46 AE21 MD49

MD47 AE19 MD50

MD48 AD18 MD51

MD49 AE18 MD52

MD50 AE16 MD53

MD51 AE15 MD54

MD52 AD14 MD55

MD53 AD13 MD56

MD54 AE13 MD57

MD55 AE12 MD58

MD56 AD11 MD59

MD57 AE11 MD60

MD58 AE9 MD61

MD59 AD8 MD62

MD60 AD6 MD63

MD61 MD62

MD62 MD63

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MD33 DDATA33

MD1 DDATA1

MD32 DDATA32

MD0 DDATA0

MD4 DDATA4

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MD22 DDATA22

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MD30 DDATA30

MD62 DDATA62

MD31 DDATA31

MD63 DDATA63

DDATA[63..0] 10,11

10 RASX0

11 RASX1

10 CASX0

11 CASX1

10 WEX0

11 WEX1

11 MCSX2

10 MCSX0

11 MCSX3

10,11 DA[13..0]

10,11 DA0

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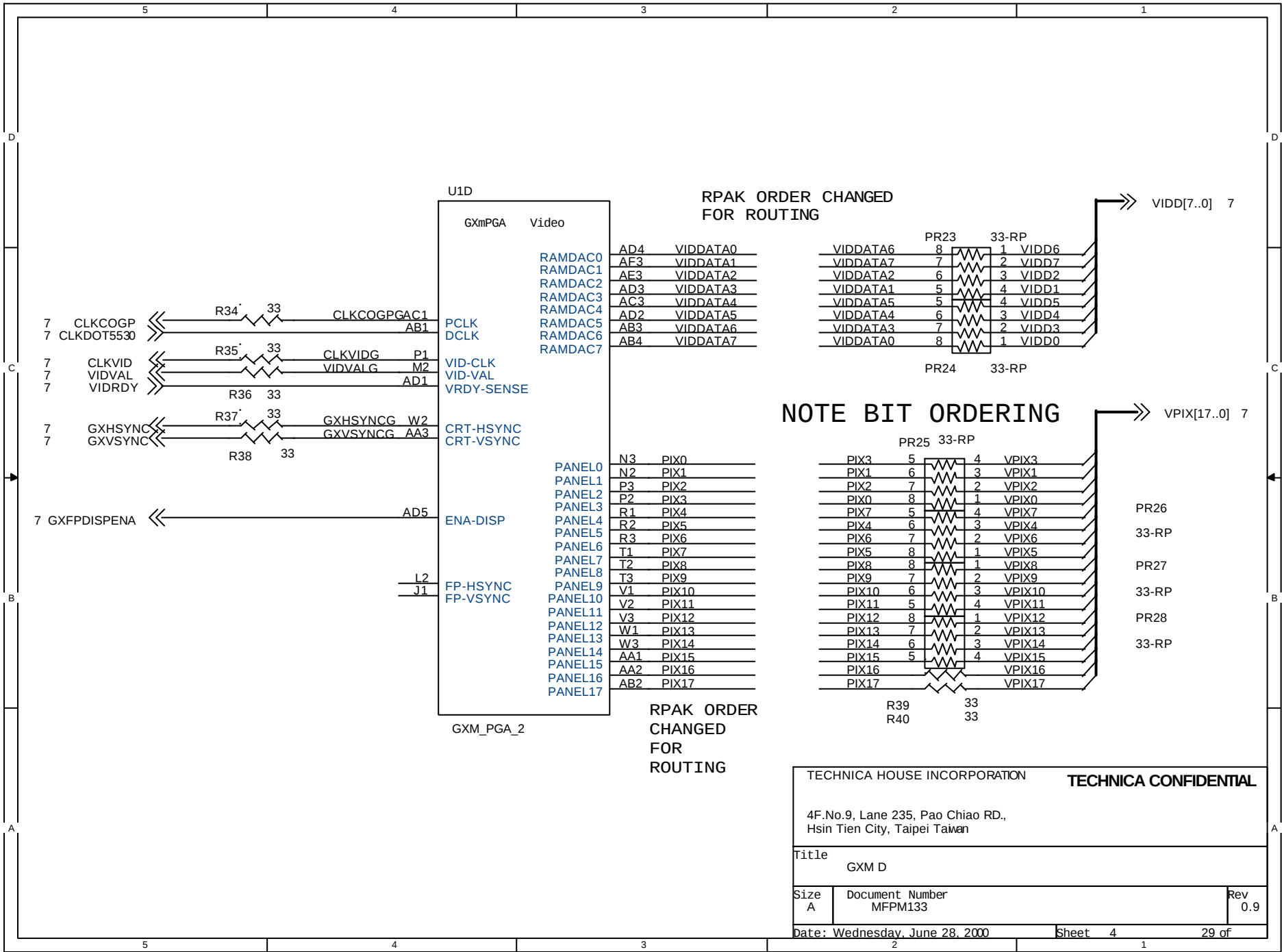
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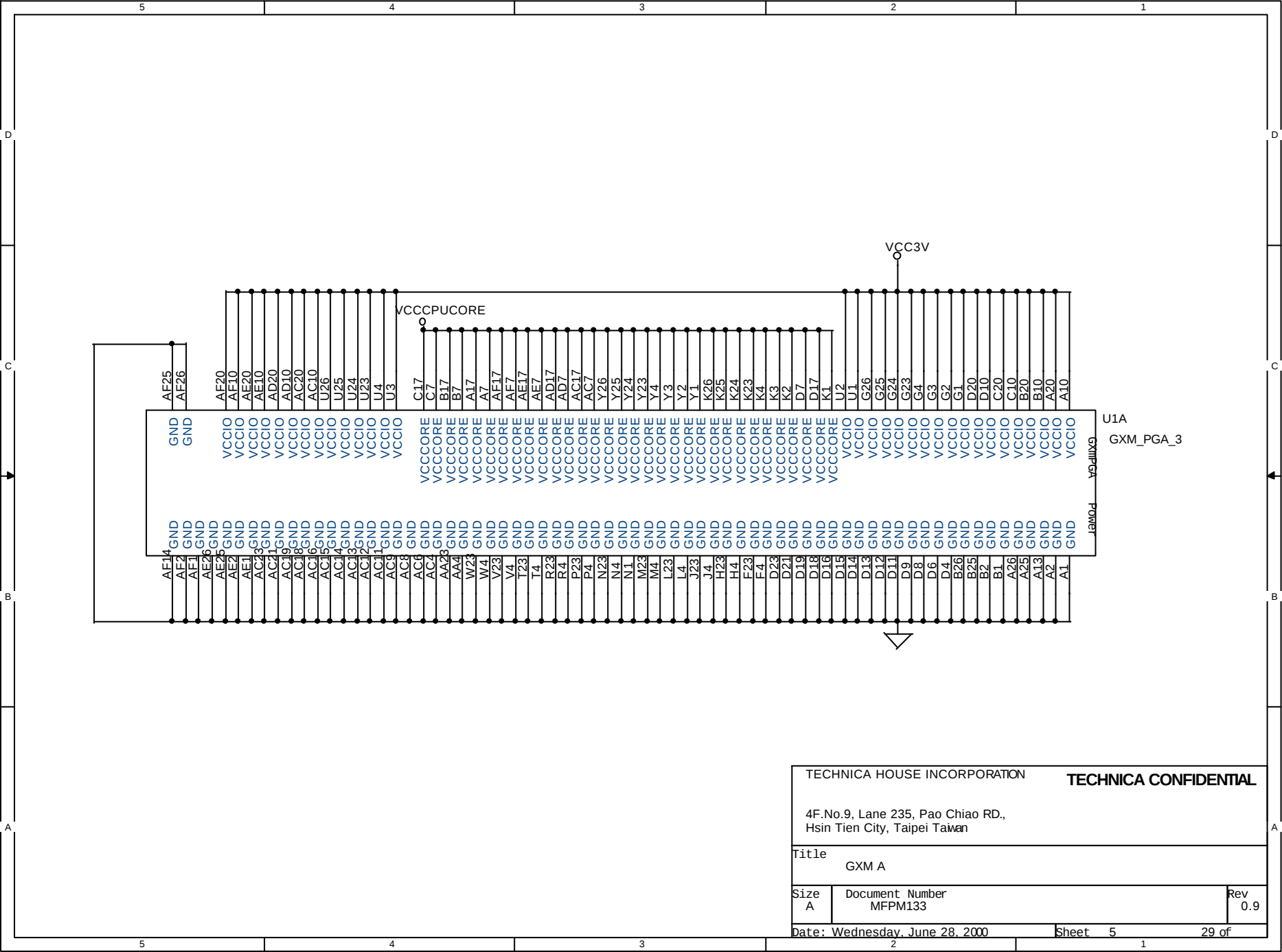
10,11 DA179

10,11 DA180

10,11 DA181

10,11 DA182

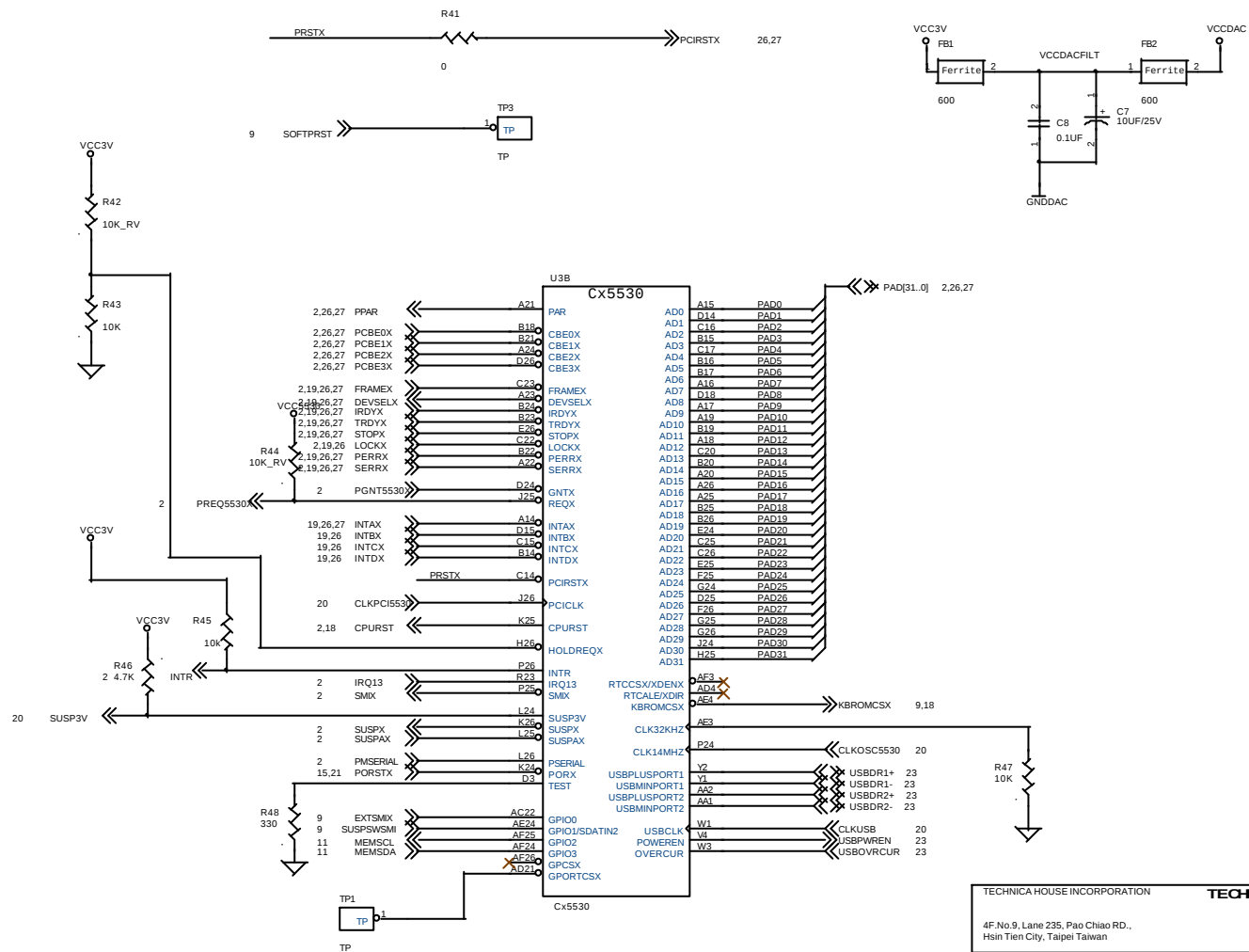




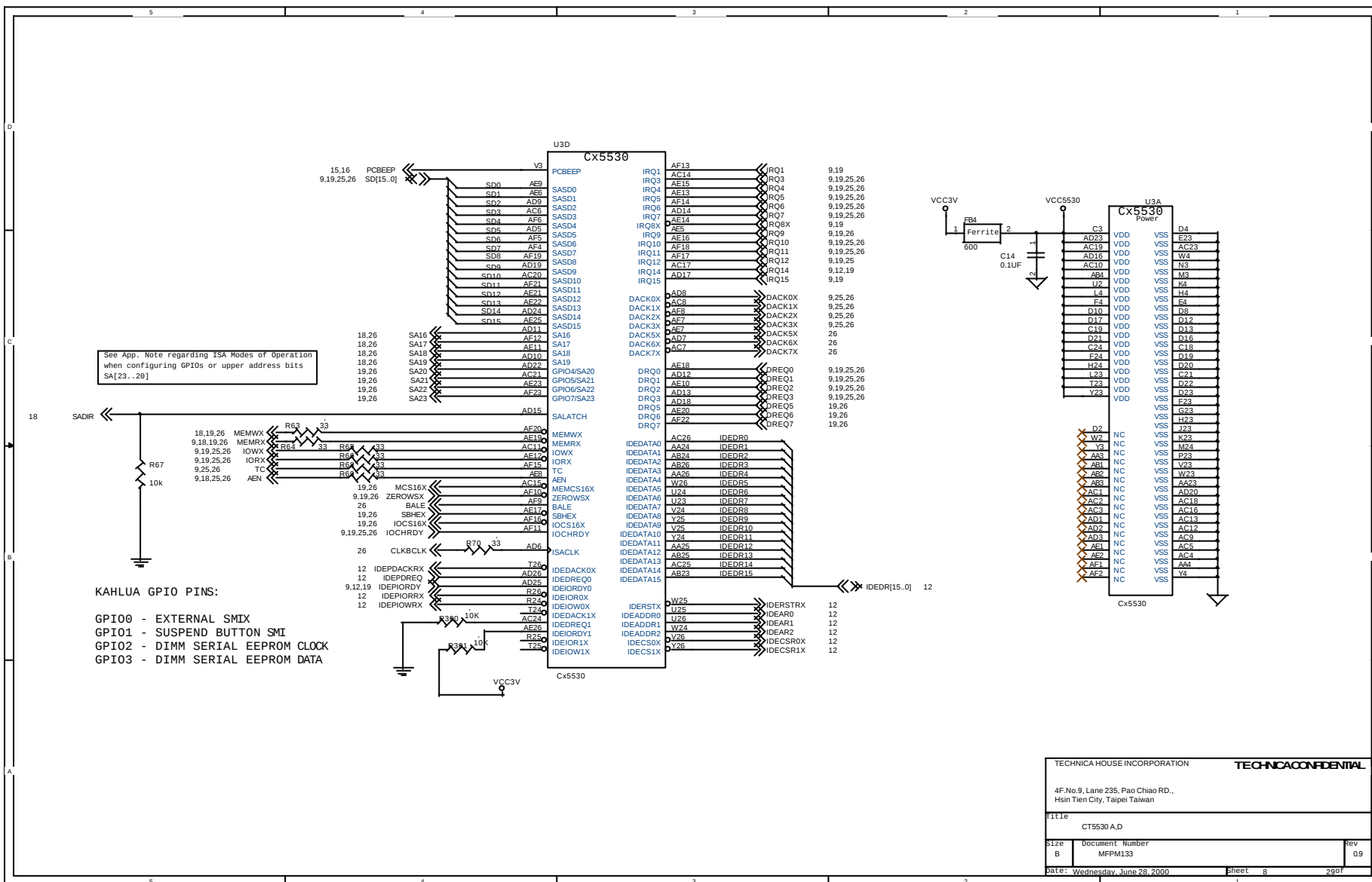
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| Title<br>GXM A                                                     |                            |                       |            |
| Size<br>A                                                          | Document Number<br>MFPM133 |                       | Rev<br>0.9 |
| Date: Wednesday, June 28, 2000                                     |                            | Sheet 5               | 29 of      |

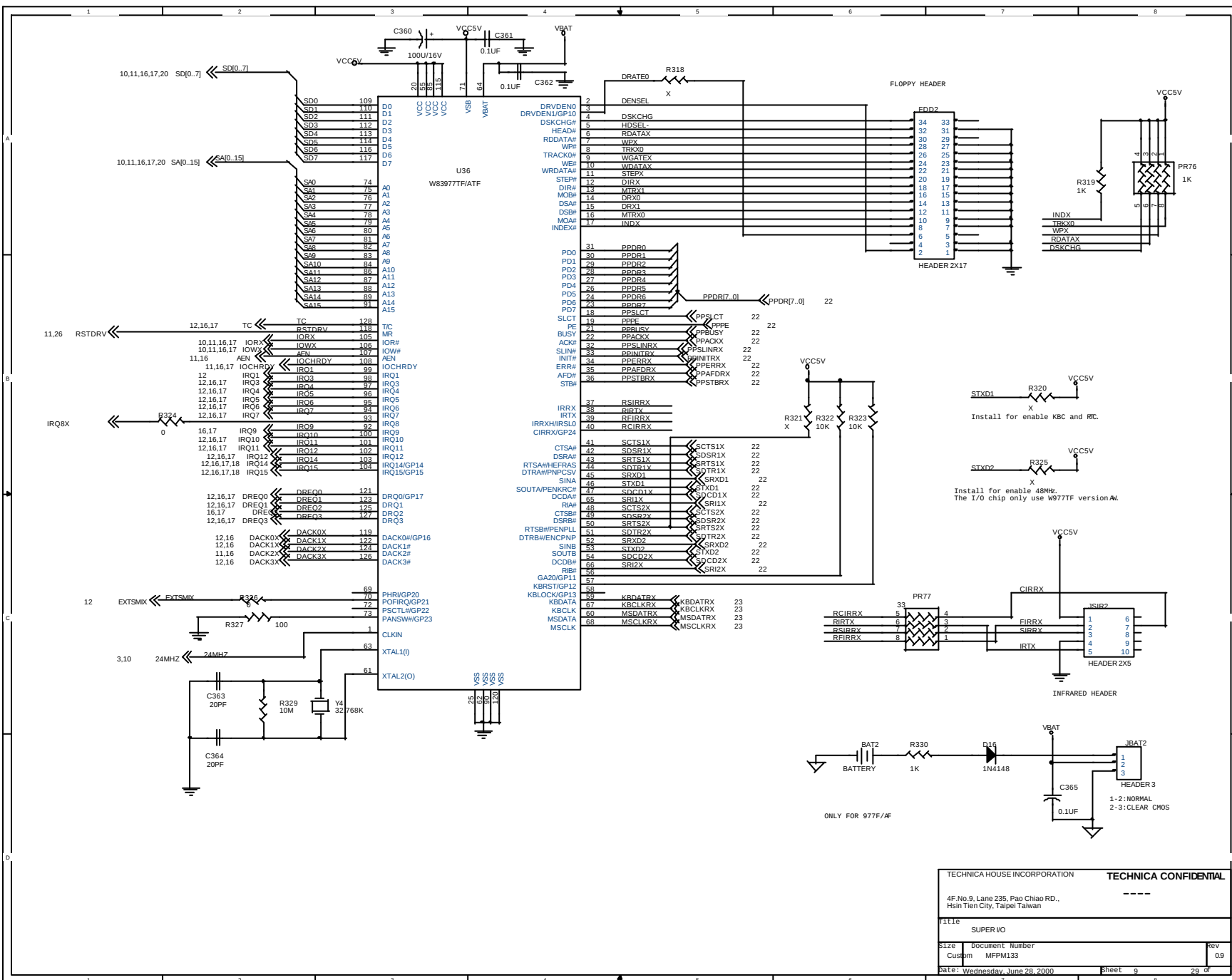
Cx5530 PCI  
DEVICE ID STRAP

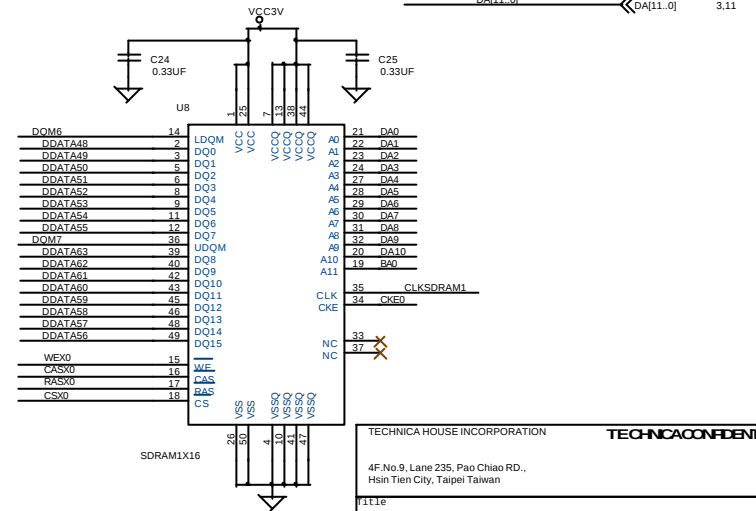
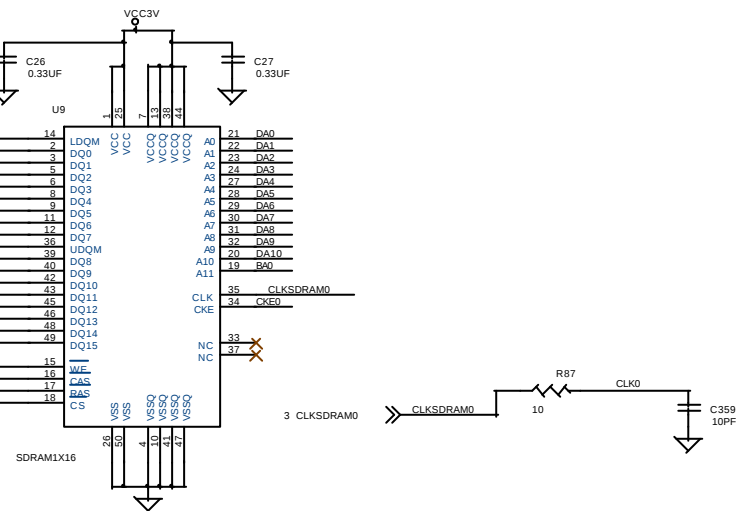
| HOLDREQX | FUNCTION          |
|----------|-------------------|
| 1        | IDSEL = AD[27:26] |
| 0        | IDSEL = AD[29:28] |



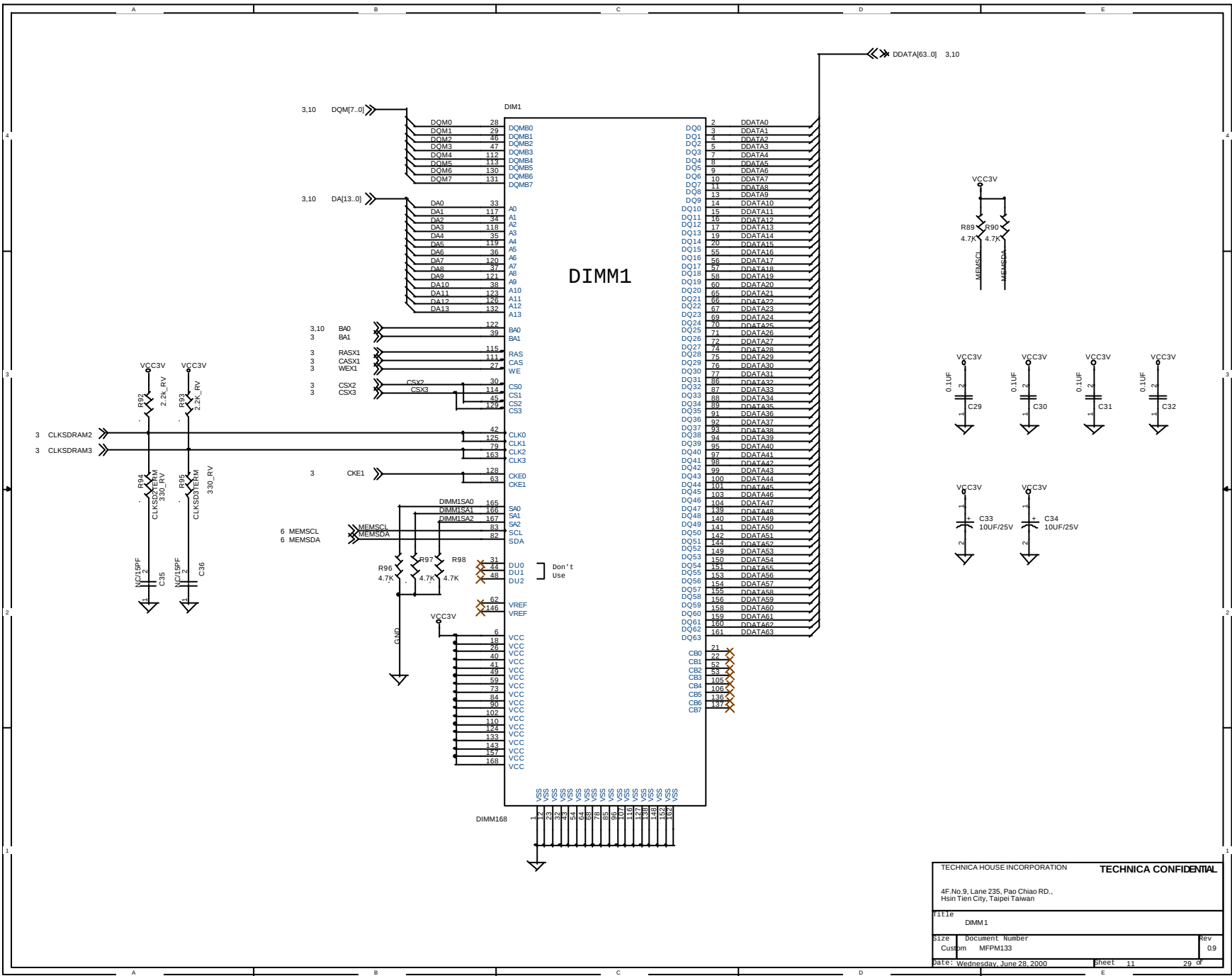


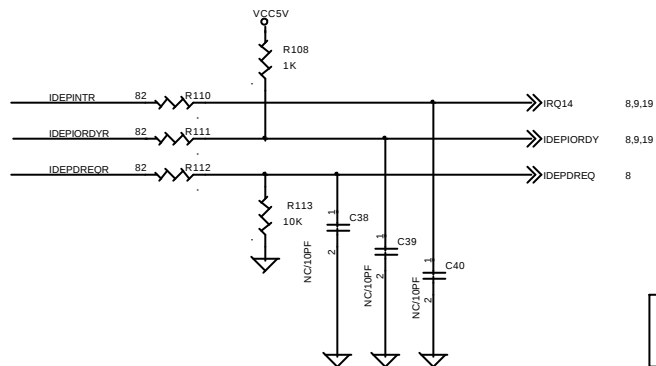
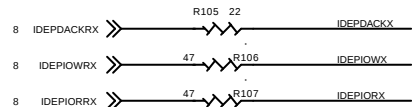


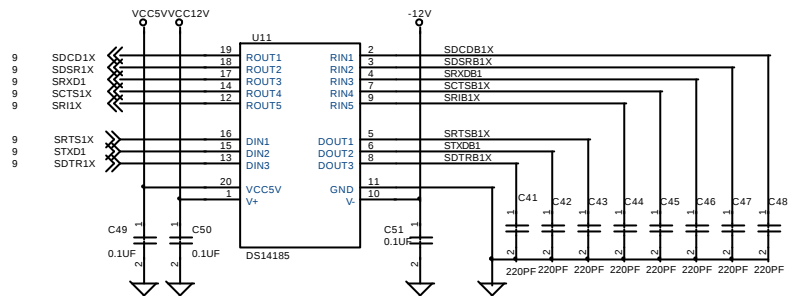




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| Title<br>ON BOARD SDRAM 1X16M                                      |                          |                       |            |
| Size                                                               | Document Number          | Rev                   |            |
| B                                                                  | MFPM133                  | 09                    |            |
| Date:                                                              | Wednesday, June 28, 2000 | Sheet                 | 10 of 2901 |

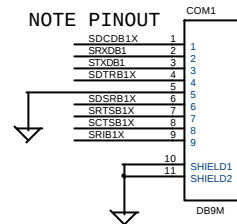




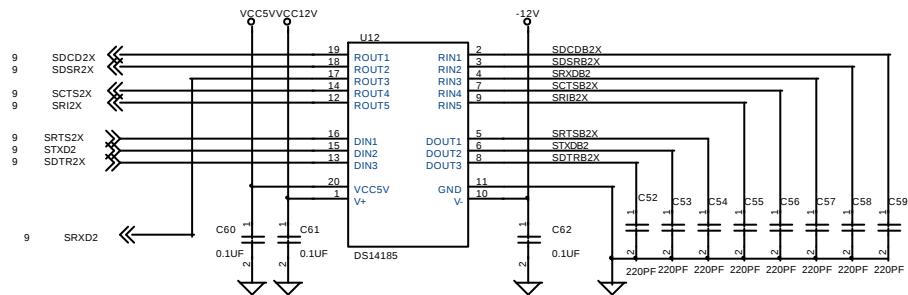


RS-232 Tranceivers

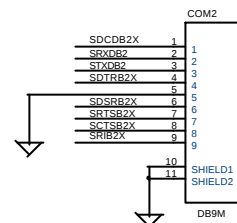
## SERIAL PORT 1

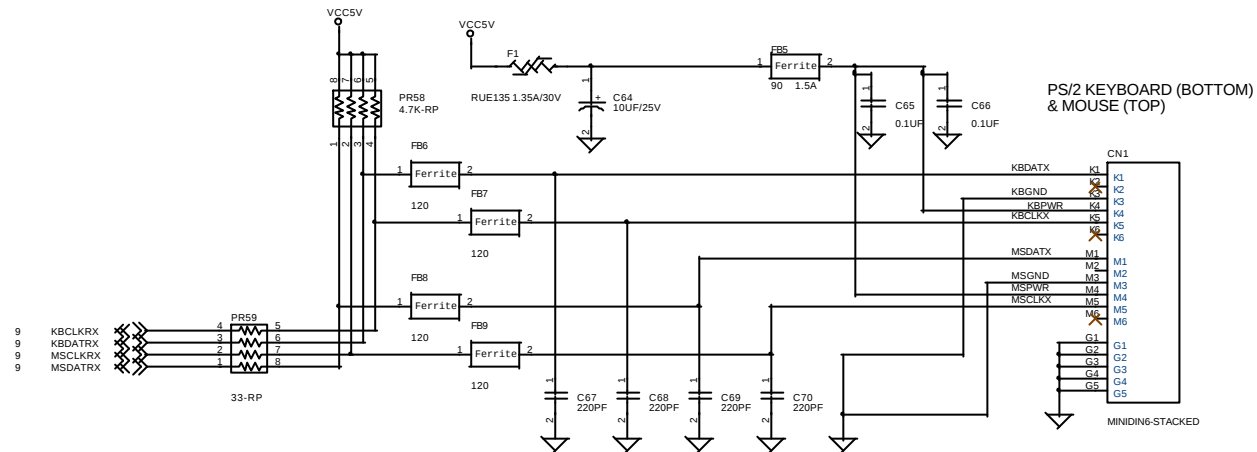


SERIAL PORT  
DSUB  
CONNECTOR

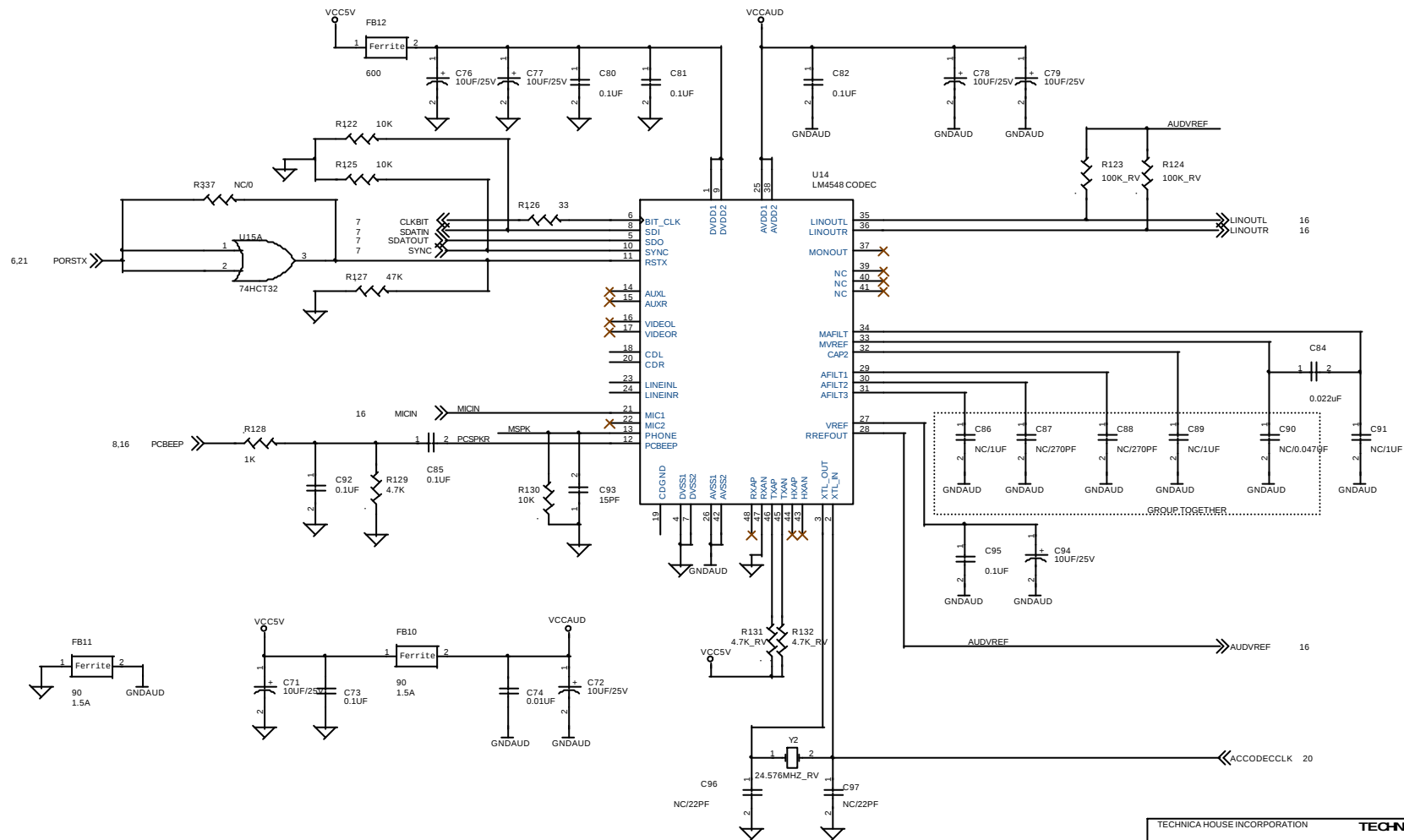


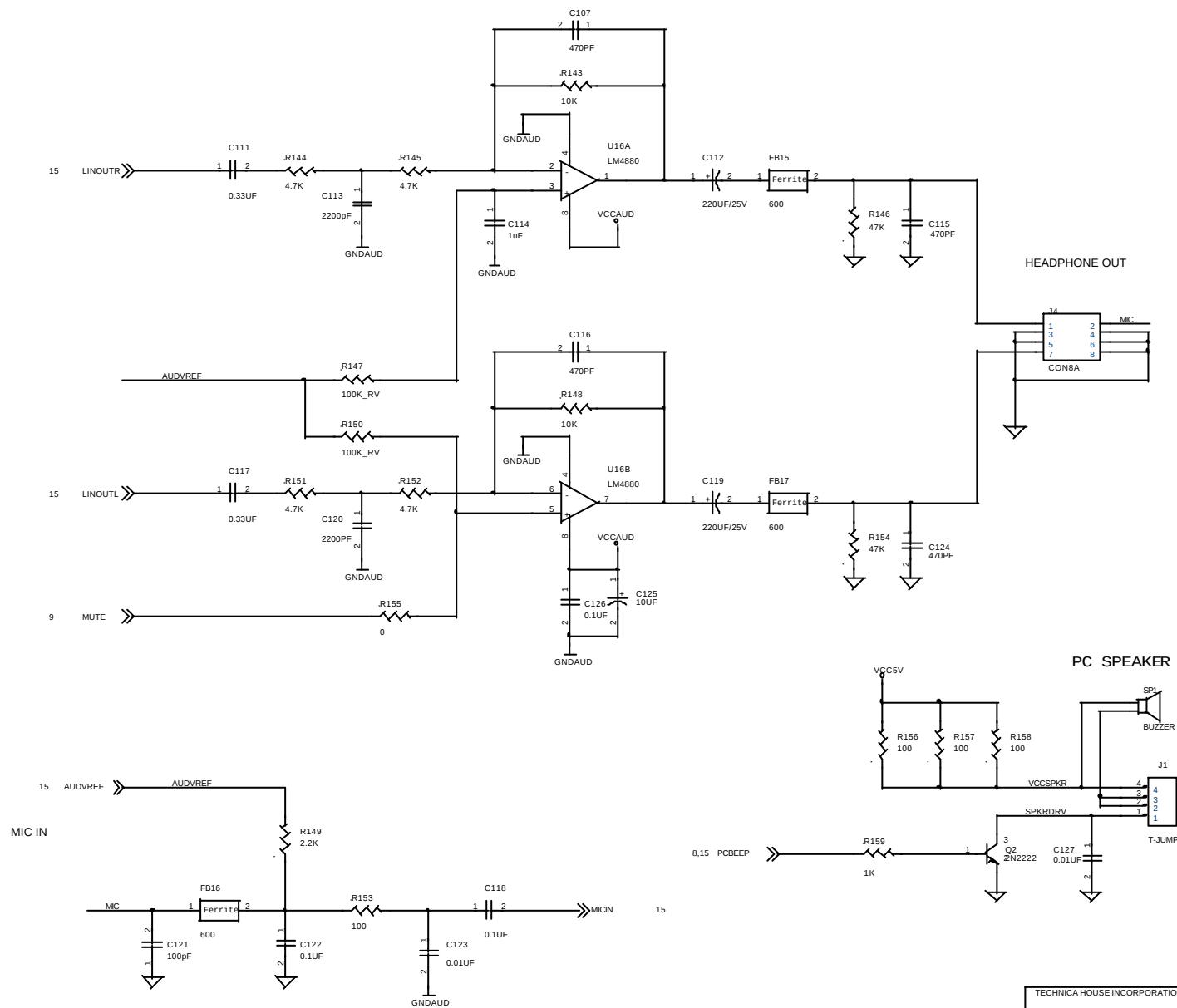
SERIAL PORT 2



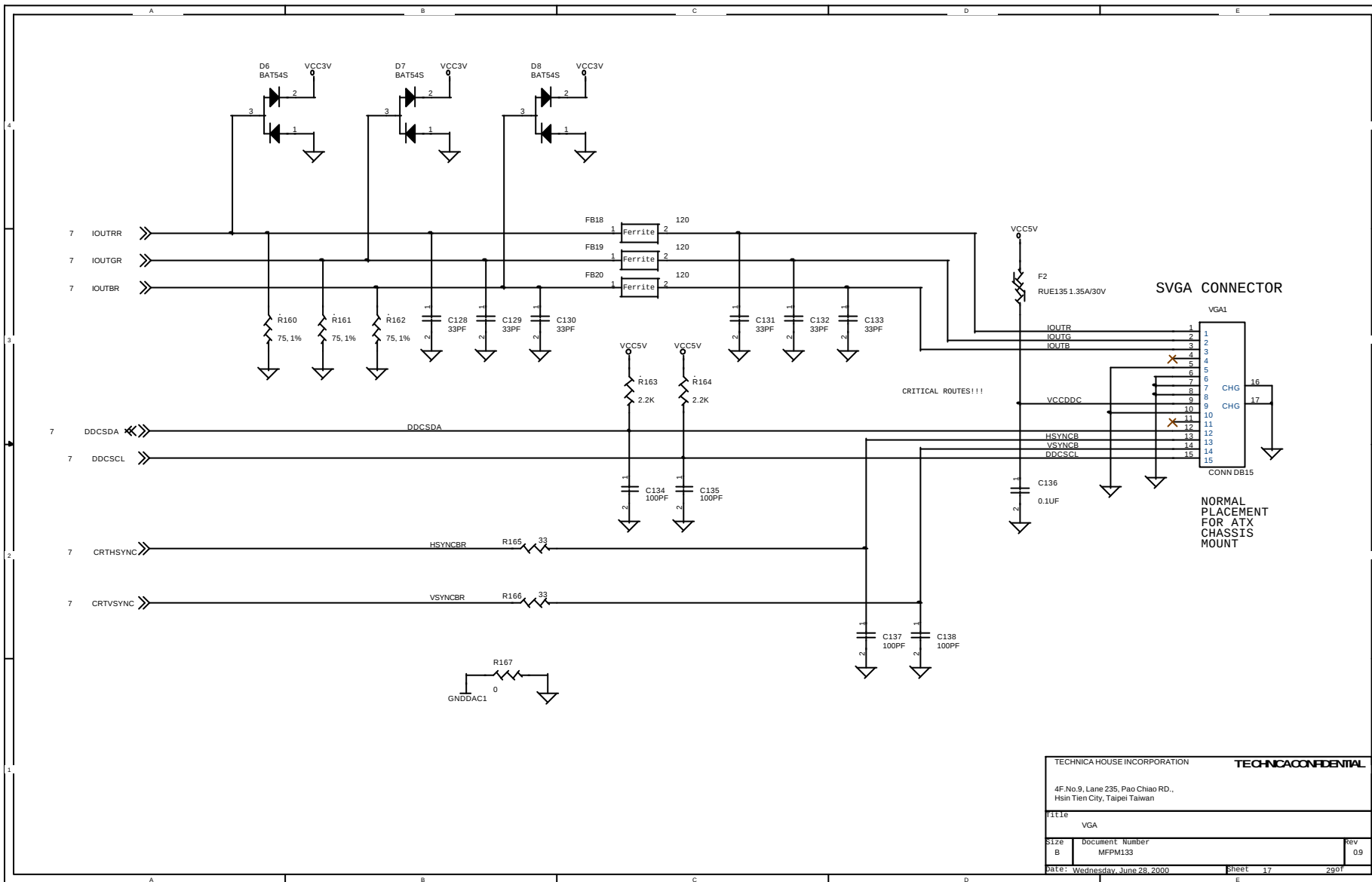


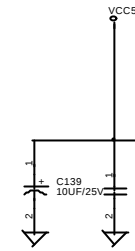
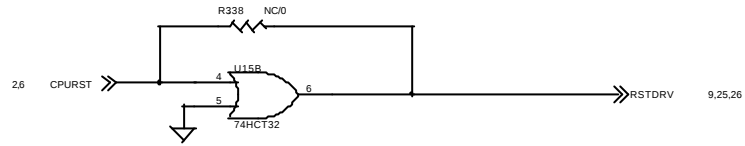
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| 4F-No.9, Lane 235, Pao Chiao RD.,<br>Hsin Tien City, Taipei Taiwan |                         |                       |
| Title K/B & MS CONNECTOR                                           |                         |                       |
| Size B                                                             | Document Number MFPM133 | Rev 0.9               |
| Date: Wednesday, June 28, 2000                                     |                         | Sheet 14 of 2901      |



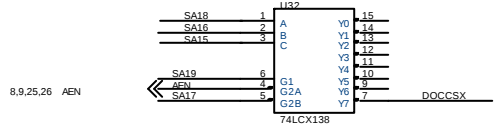
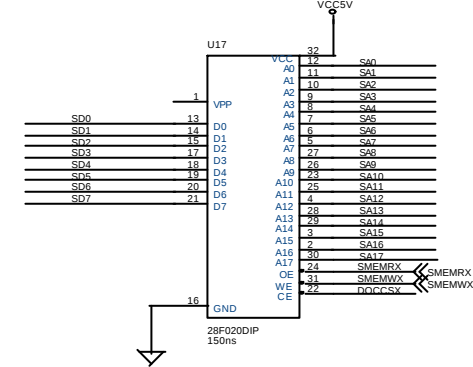
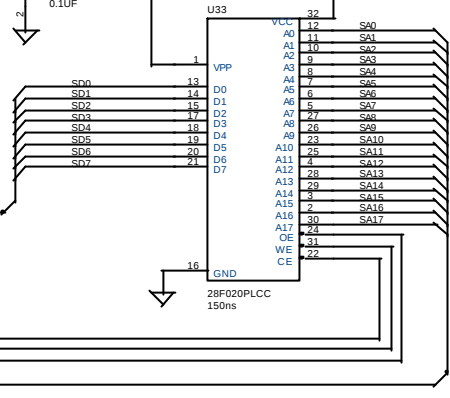
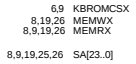
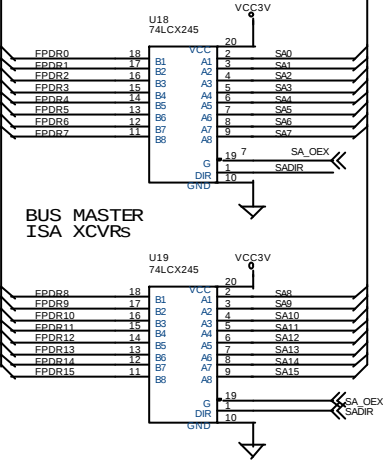


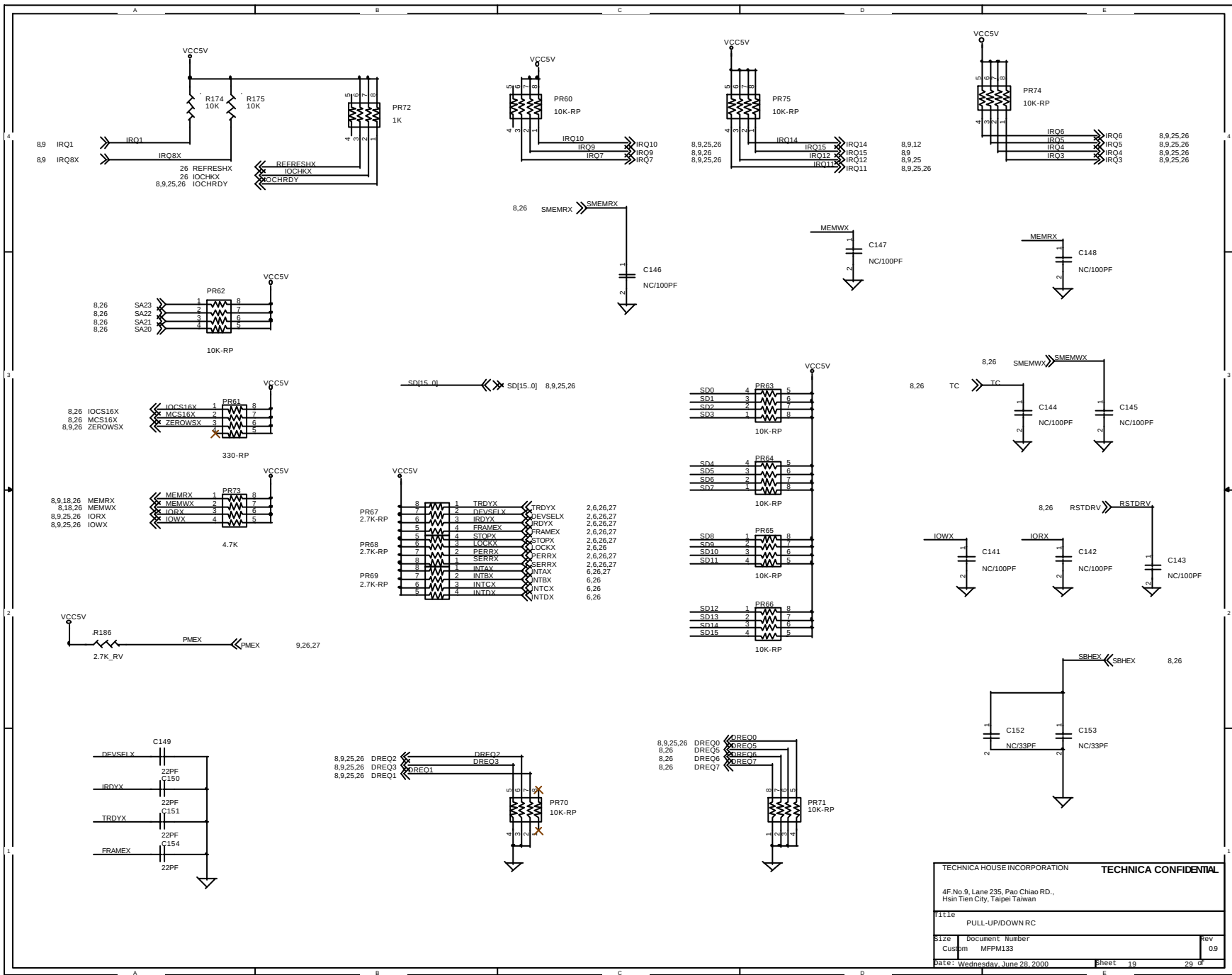
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|----------------------------------------------------------------------|-----------------|-----------------------|-------|
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| 4F, No. 9, Lane 235, Pao Chiao RD.,<br>Hsin Tien City, Taipei Taiwan |                 |                       |       |
| Title AUDIO CONNECTOR                                                |                 |                       |       |
| Size                                                                 | Document Number | Rev                   |       |
| Custom                                                               | MFPML33         | 09                    |       |
| Date: Wednesday, June 28, 2000                                       |                 | Sheet 16              | 29 of |





DIR | XFER  
 0 | A <- B (default)  
 1 | A -> B





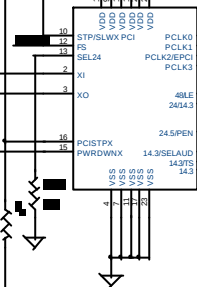
Place a decoupling cap at each Vcc pin.

| CLK0E | CLKFS0 | PCI      |
|-------|--------|----------|
| 3-5   | 4-6    | TRISTATE |
| 3-5   | 2-4    | Reserved |
| M     | 4-6    | 30       |
| M     | 2-4    | 33       |
| 1-3   | 4-6    | Reserved |
| 1-3   | 2-4    | Reserved |

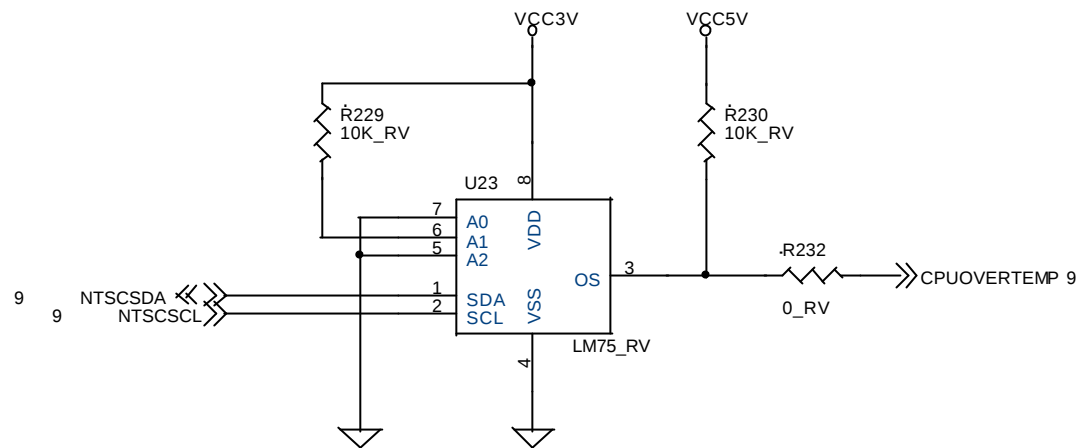
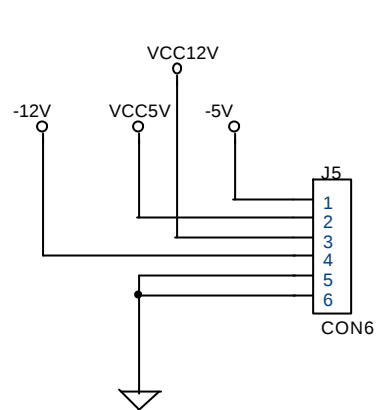
M=FLOAT

| CLKPEN | PIN25 | PIN24 |
|--------|-------|-------|
| 0      | PCI   | PCI   |
| M      | PCI   | PCIF  |
| 1      | PCIF  | PCIF  |

USBSEL0=1, 48MHz  
USBSEL0=0, 24MHz

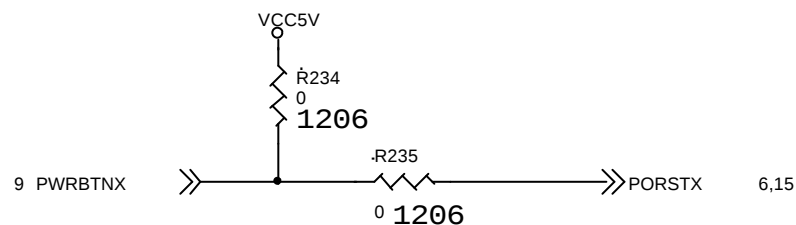


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CPU TEMPERATURE SENSOR

ISOLATE POWER GROUND FROM  
SIGNAL GROUNDS



TECHNICA HOUSE INCORPORATION **TECHNICA CONFIDENTIAL**

4F.No.9, Lane 235, Pao Chiao RD.,  
Hsin Tien City, Taipei Taiwan

Title  
TEMP. SENSOR

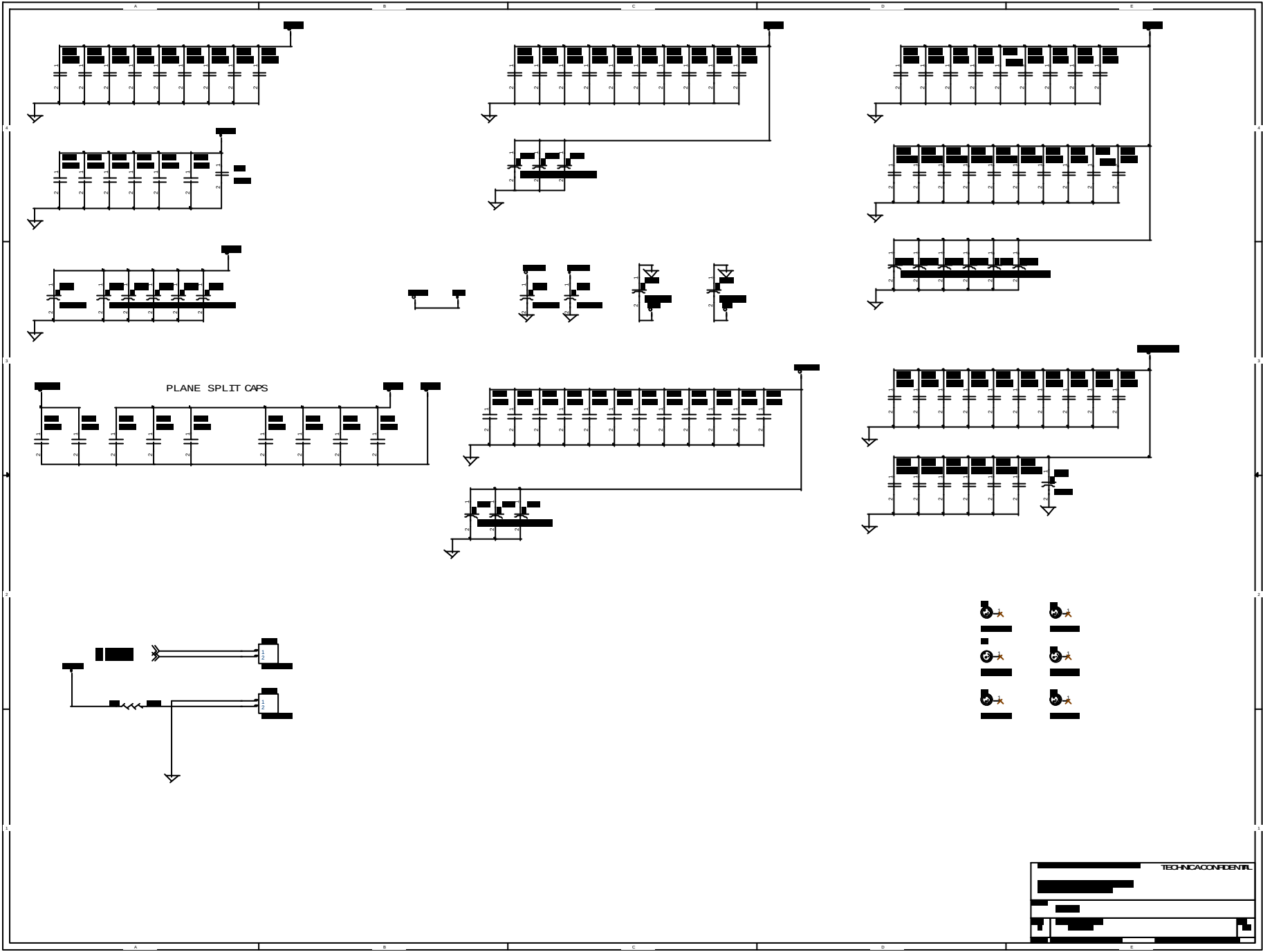
Size A Document Number  
MFPM133

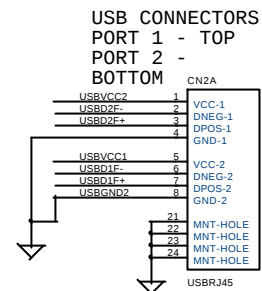
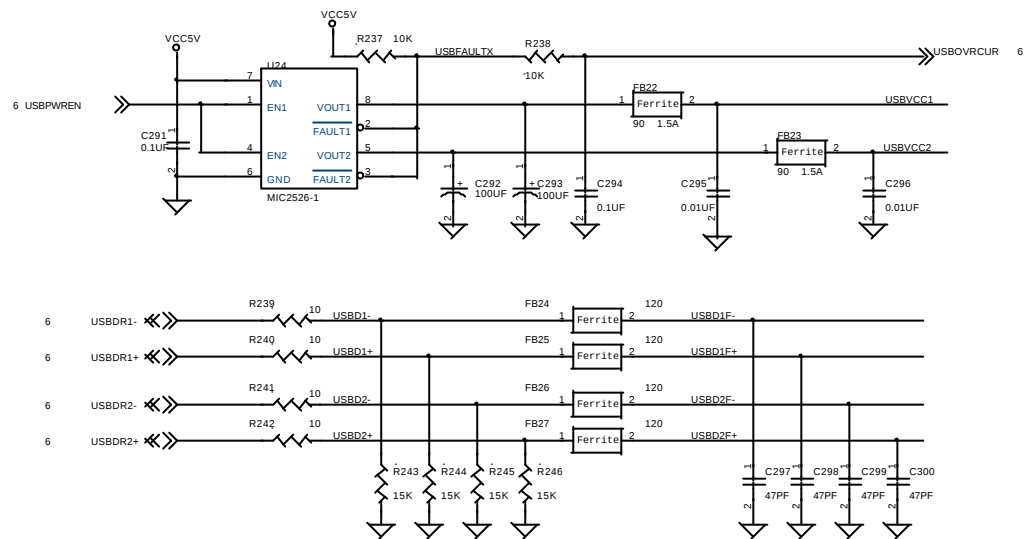
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|                                                                    |                            |                       |
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| 4F-No.9, Lane 235, Pao Chiao RD.,<br>Hsin Tien City, Taipei Taiwan |                            |                       |
| Title<br>USB1.2                                                    |                            |                       |
| Size<br>B                                                          | Document Number<br>MFPM133 | Rev<br>0.9            |
| Date: Wednesday, June 28, 2000                                     |                            | Sheet 23 2907         |

