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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	2.0	ORIGINAL RELEASE	11-17-03	N/A
	2.0.1	SECOND RELEASE	11-25-03	N/A
	2.0.2	THIRD RELEASE	12-08-03	N/A

MOTOROLA RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HERE IN IMPROVE RELIABILITY, FUNCTION, OR DESIGN. MOTOROLA DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN.

Designed by: Teddy Wong	Date: 05-09-03
Drawn by: Teddy Wong	Date: 05-09-03
Project lead: ???	Date: MM-DD-YY
Product Specialist: ???	Date: MM-DD-YY

**MOTOROLA**

6501 WILLIAM CANNON DRIVE AUSTIN, TEXAS 78785 USA

Title: M9328MX1ADS V2.0

Size C	Root: <Name5> Name: <Name6>	Document Number 63A10740S/63A11021S	Rev 2.0.2
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NOTES:

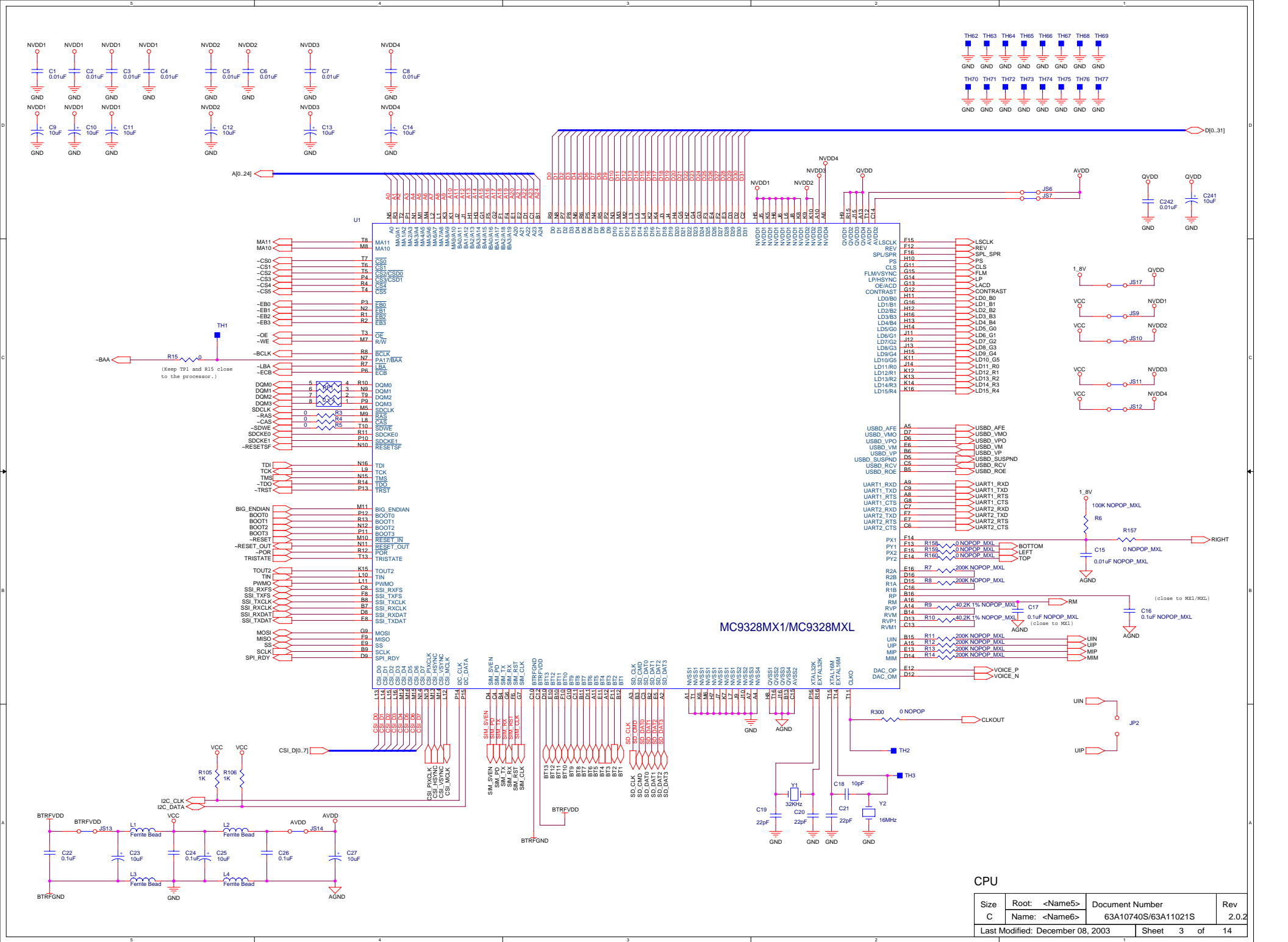
- 1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE IN OHMS, 5%, 1/8 WATT.
ALL CAPACITORS ARE IN UF.
ALL VOLTAGE ARE DC.
- 2. INTERRUPTED LINES CODES WITH THE SAME LETTER OR LETTER COMBINATIONS ARE ELECTRICALLY CONNECTED.
- 3. DEVICE TYPE NUMBER IS FOR REFERENCE ONLY. THE NUMBER VARIES WITH THE MANUFACTURER.
- 4. SPECIAL SYMBOL USAGE:
_B DENOTES - ACTIVE LOW SIGNAL.
<> DENOTES - VECTORED SIGNALS.
- 5. INTERPRET DIAGRAM IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATIONS, CURRENT REVISION, WITH THE EXCEPTION OF LOGIC BLOCK SYMBOLOLOGY.
- 6. CODE FOR SHEET TO SHEET REFERENCES IS AS FOLLOWS:

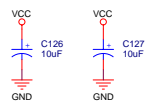
5 C7 < >
SHEET _/ / \ \ OUTPUT
ZONE ____/ \ ____ INPUT

- 7. VCC LOCATIONS
UNLESS OTHERWISE SPECIFIED, VCC IS APPLIED TO:
PIN8 OF ALL 8-PIN ICS
PIN14 OF ALL 14-PIN ICS
PIN16 OF ALL 16-PIN ICS
PIN20 OF ALL 20-PIN ICS
- 8. GROUND LOCATIONS
PIN4 OF ALL 8-PIN ICS
PIN7 OF ALL 14-PIN ICS
PIN8 OF ALL 16-PIN ICS
PIN10 OF ALL 20-PIN ICS
- 9. Non-populated Components
NOPOP_MX1 - Non-populated components for MX1
NOPOP_MXL - Non-populated components for MXL
NOPOP - Non-populated components for both MX1 and MXL

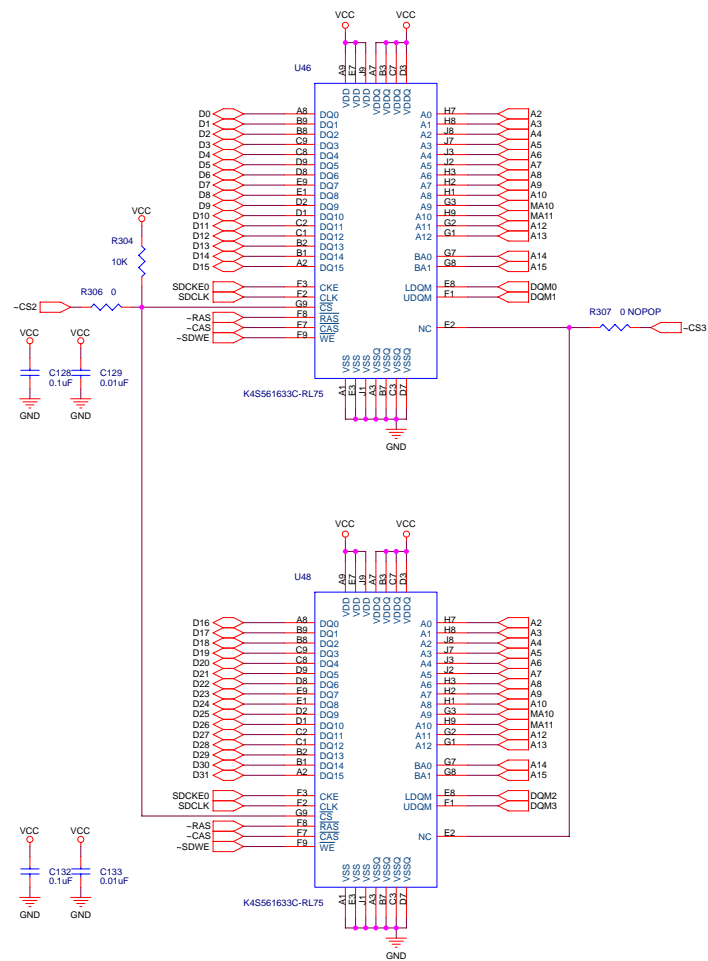
Notes

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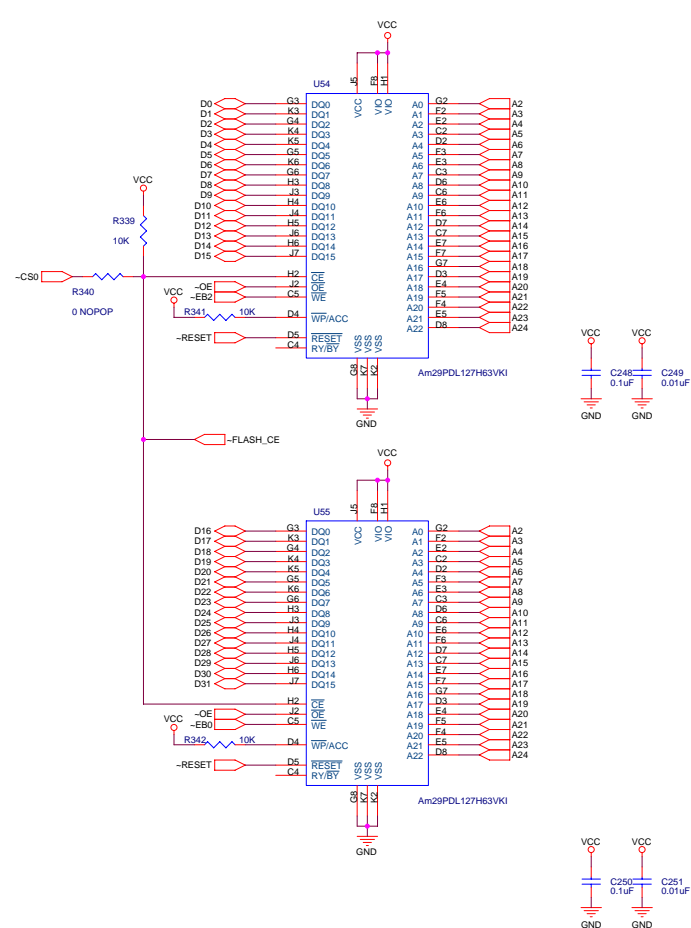




16Mx32-bit SDRAM

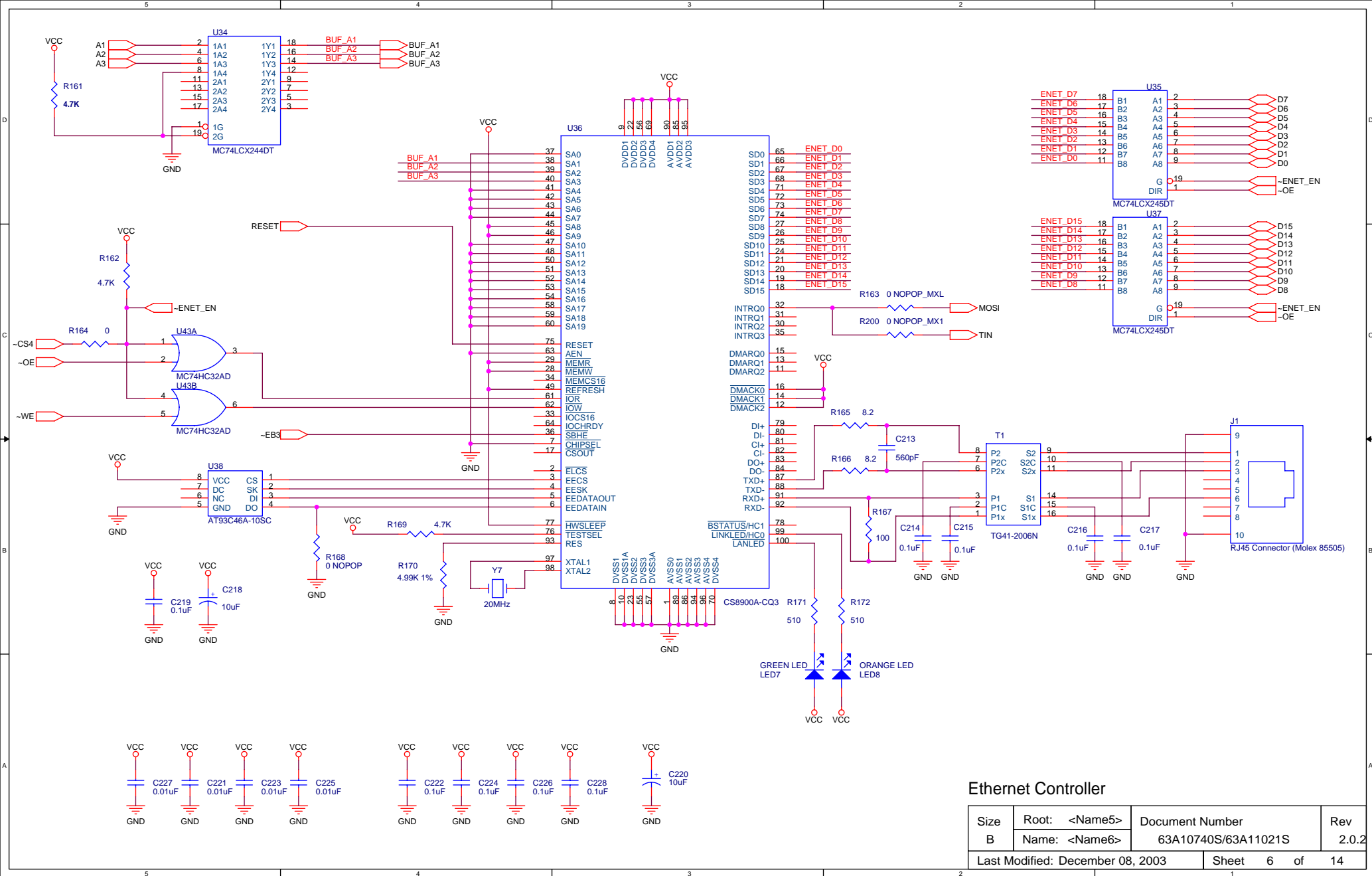


8Mx32-bit Flash

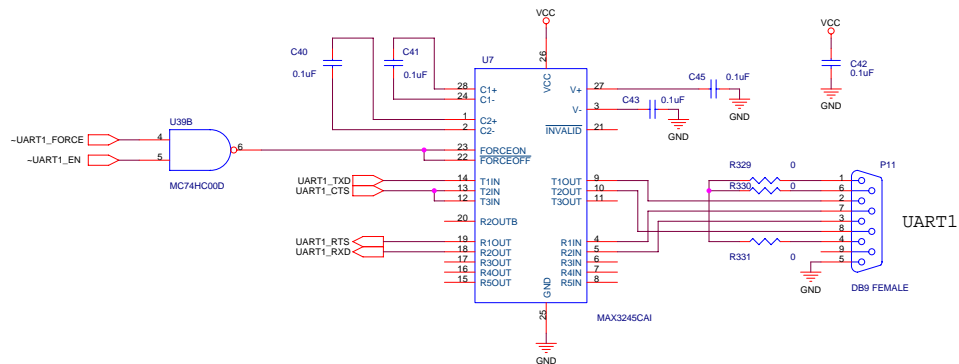
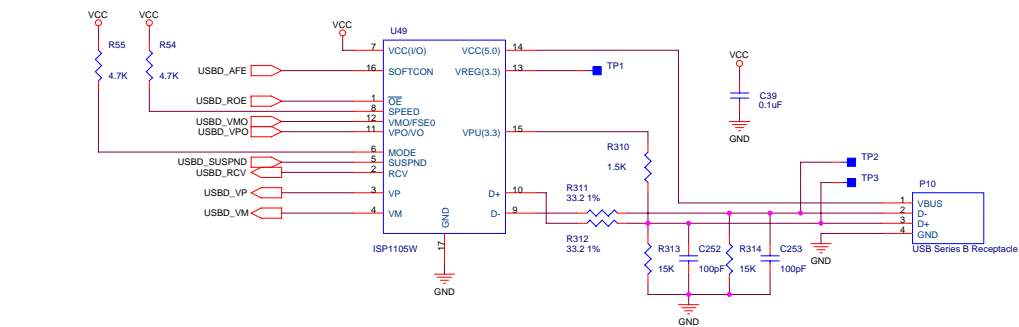


Memory

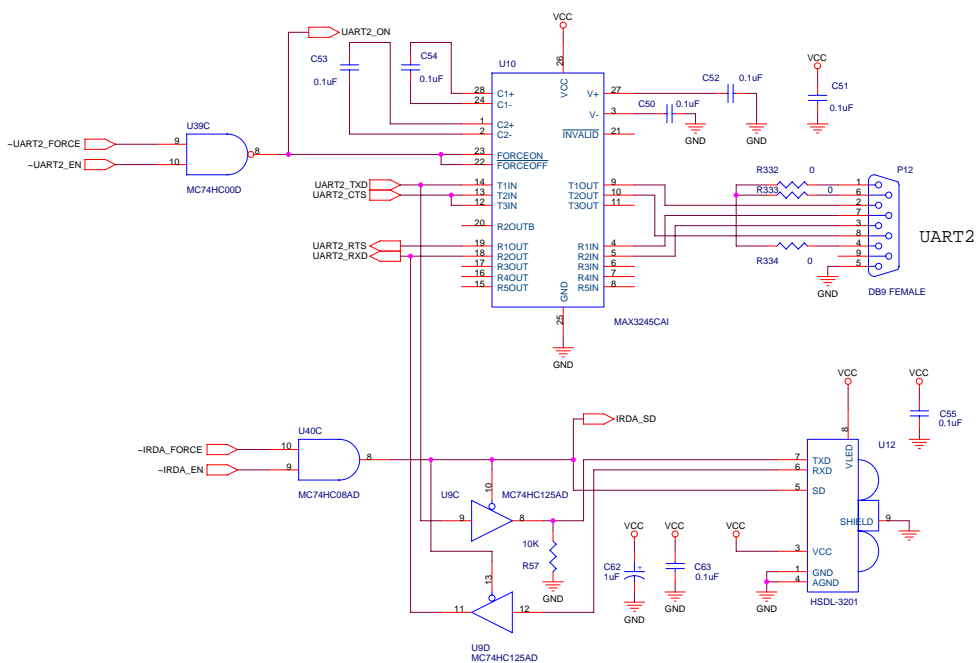
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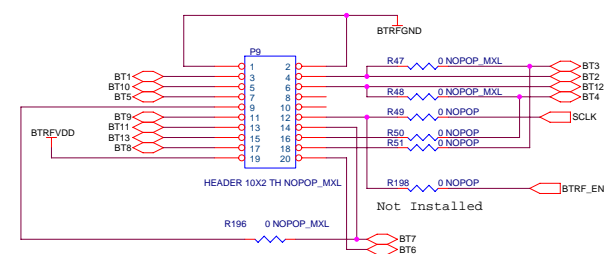
USB DEVICE



PIN#	SIGNAL
2	TXD
3	RXD
7	RTS
8	CTS
5	GND



BLUETOOTH CONNECTOR



BLUETOOTH SIGNAL MAPPING

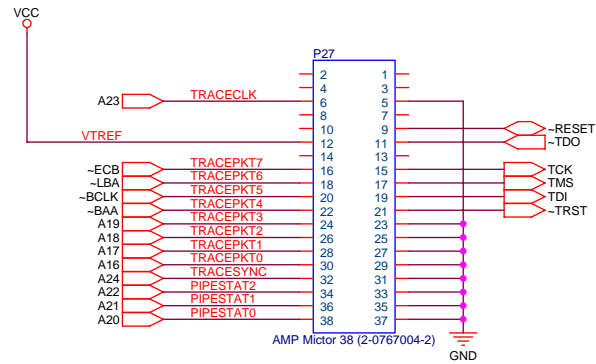
GILLIUM APPLICATION BOARD		MX1
PIN 3	DATAcLKo	BT1
PIN 4	PKTDATA	BT2 BT3
PIN 7	FSO	BT5
PIN 11	RXTXENi	BT9
PIN 9	RSTbi	BT7
PIN 6	SPIDATA	BT4 BT12
PIN 15	SPICLK _i	BT13
PIN 13	CEN _{bi}	BT11
PIN 12	GPO _o	PC14
NO USE		BT6, 7, 8, 10

DB9 PIN	DBMx1		COMPUTER	
	DCE	DIR	DTE	DIR
1	DCD	O	DCD	I
2	TXD	O	RXD	I
3	RXD	I	TXD	O
4	DTR	I	DTR	O
5	GND		GND	
6	DSR	O	DSR	I
7	CTS	I	RTS	O
8	RTS	O	CTS	I
9	RI	O	RI	I

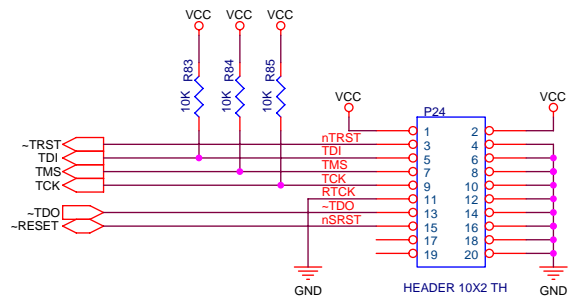
USB, UARTs, IrDA & BlueTooth

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Multi-Trace Interface Connector



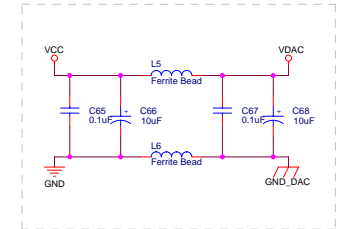
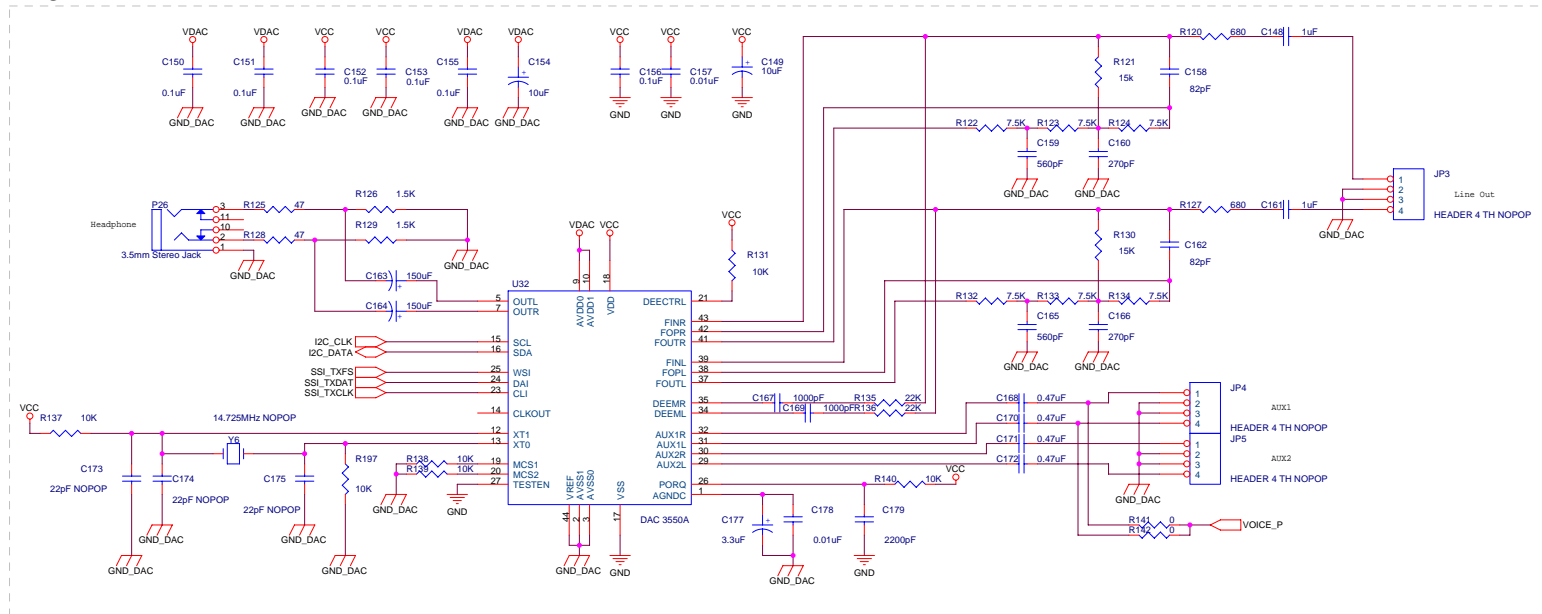
Multi-ICE Interface Connector



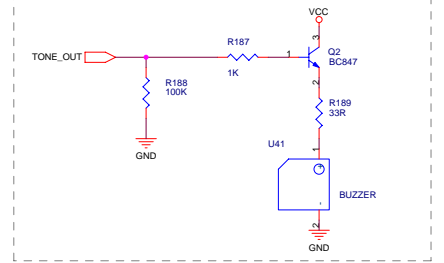
Debug Ports

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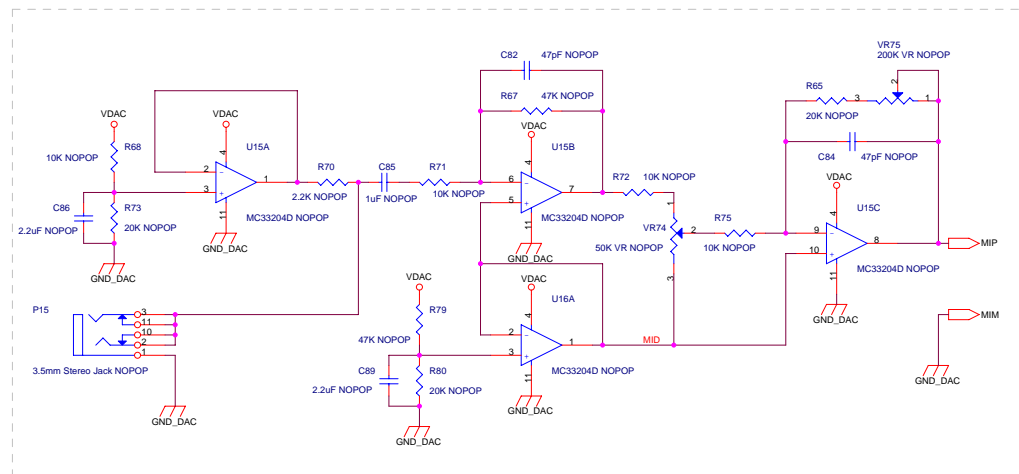
DAC



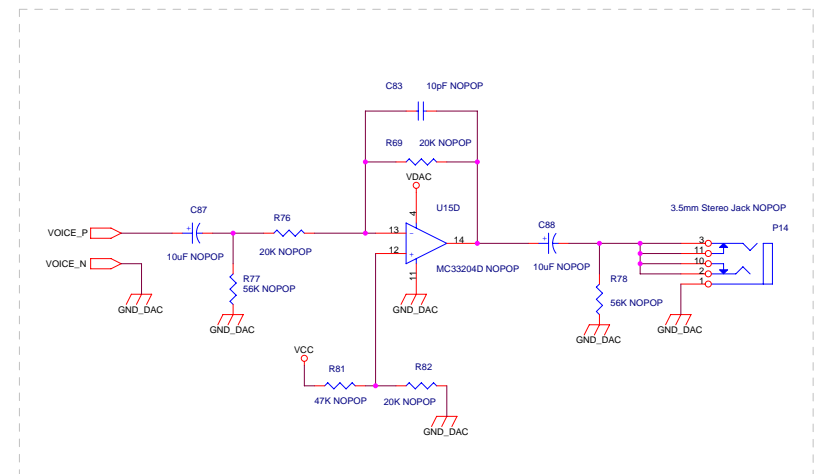
Single Tone Generator



MIC INPUT



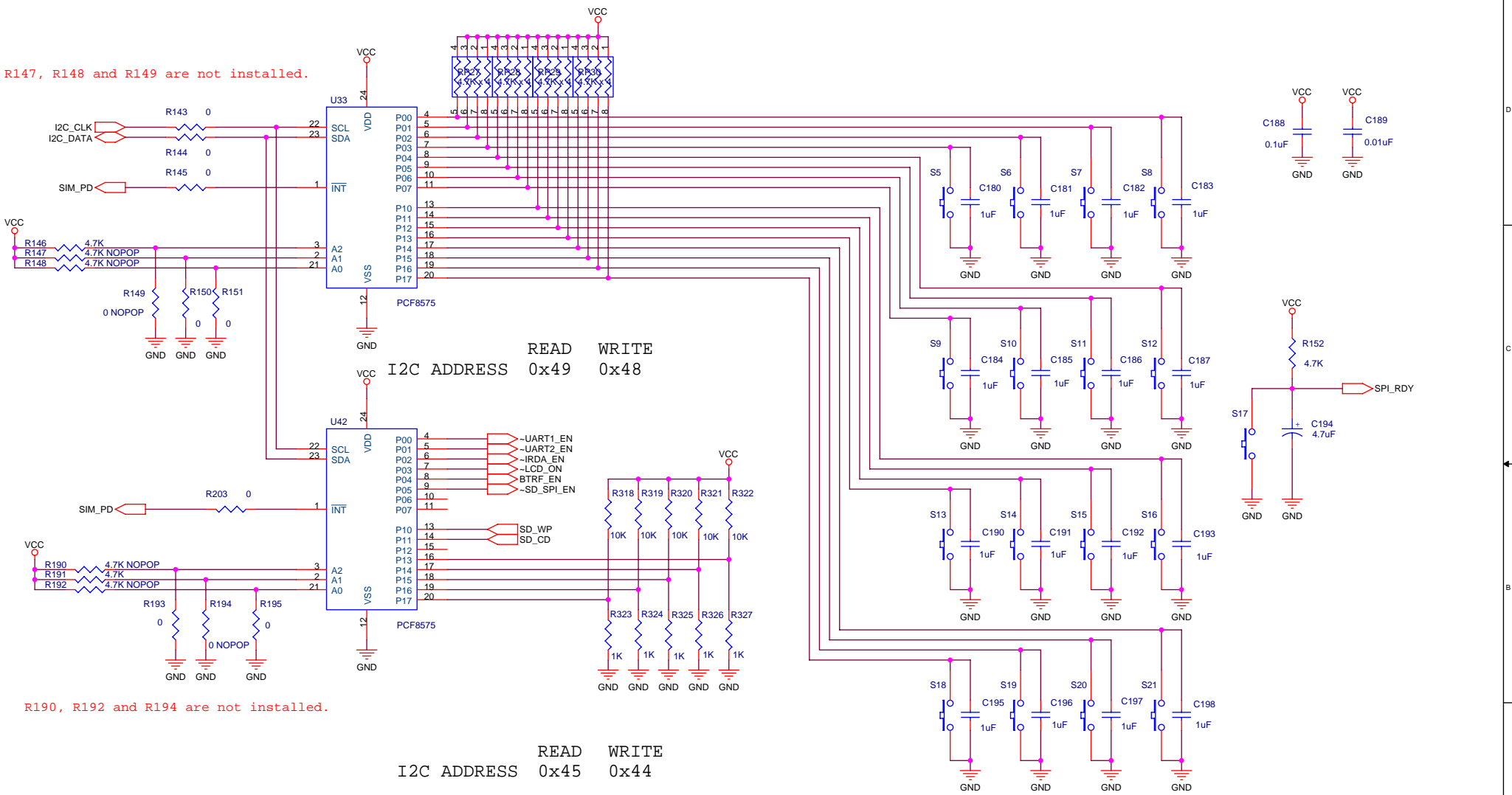
VOICE OUTPUT



Sound

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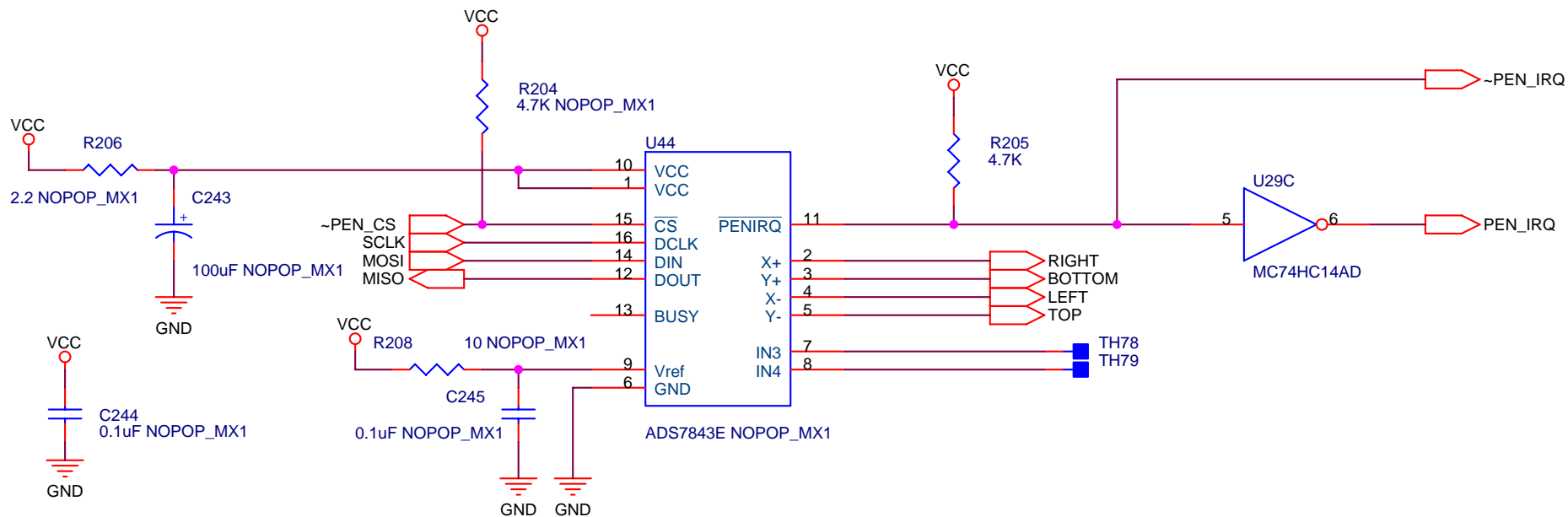
R147, R148 and R149 are not installed.



R190, R192 and R194 are not installed.

IO Expanders

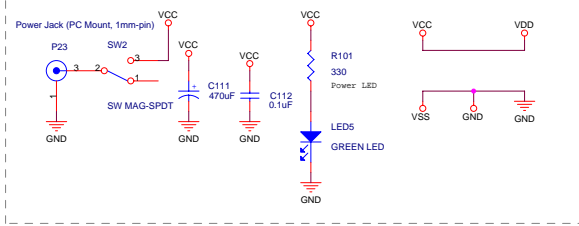
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	Name: <Name6>		
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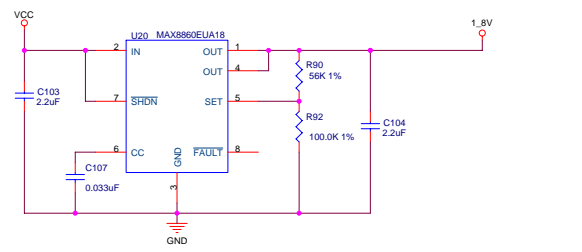
Touch Panel Controller

Size A	Root: <Name5>	Document Number 63A10740S/63A11021S	Rev 2.0.2
	Name: <Name6>		
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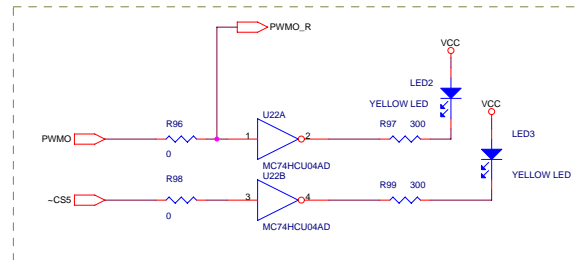
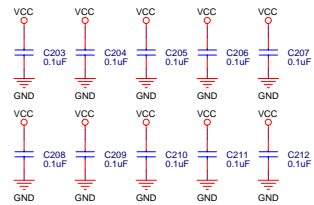
Power Connector



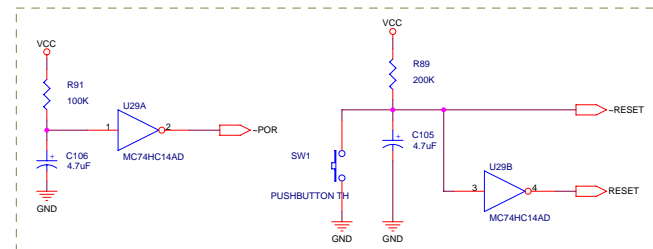
External Voltage Regulator



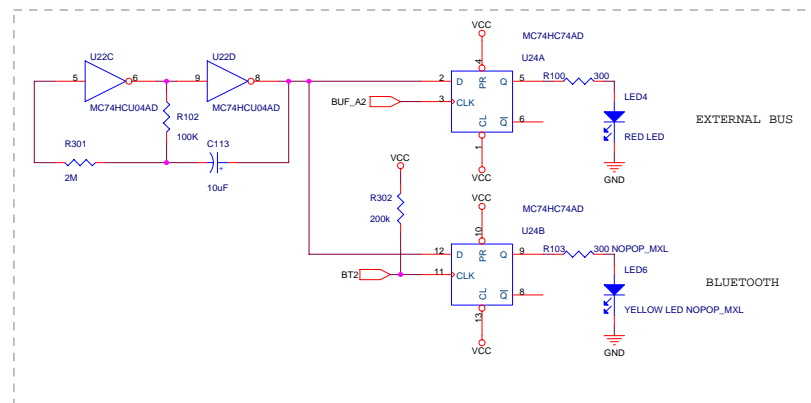
General Purpose LEDs



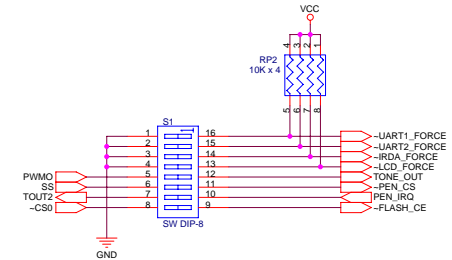
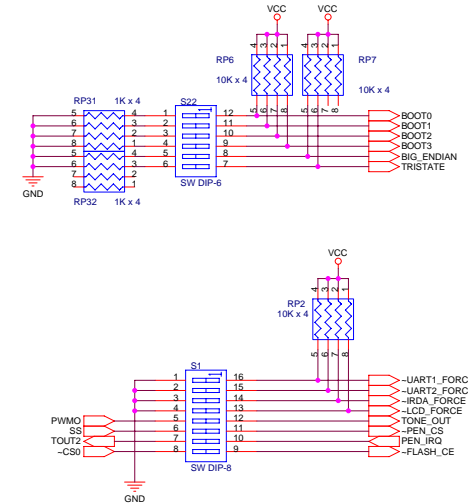
RESET



Heart Beat Circuit

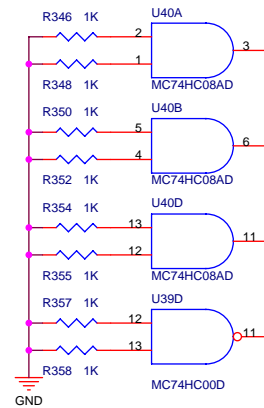
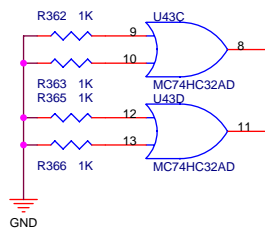
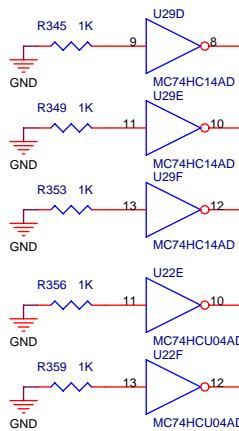
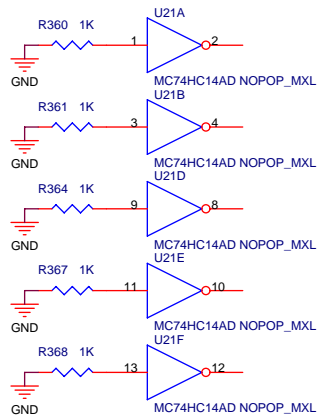
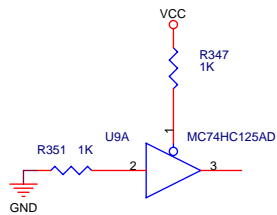
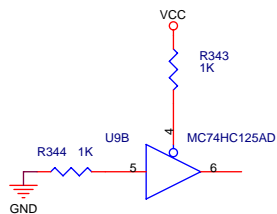


Boot Mode Selection



Miscellaneous

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Unused Gates

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