Major Components for our Design:

<u>Microcontroller</u>: Analog Devices- SHARC ADSP-2126

<div align="right">

[Datasheet1](#),[Datasheet2](#),[Datasheet3](#)

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<u>Package</u>:144-lead LQFP- -0.50 mm BSC Typ. lead pitch- WG 22.00 BSC SQ
<u>Footprint</u>: QUAD.50M/144/WG22.00

<u>External Memory</u>: Cypress CY7C1059DV33   [Datasheet](#)

<u>Package</u>: 44-pin TSOP II 0.8 BSC, WG 11.938-11.735, L 18.517-18.313
<u>Footprint</u>:

<u>USB Host</u>: Cypress SL811HS Embedded USB Host/Slave Controller   [Datasheet](#)
[Errata1](#)
<u>Package</u>: 48-pin TQFP – 0.50 Typ. Lead pitch- WG 9.0mm
<u>Footprint</u>: QUAD .50M/48/WG9.00

<u>Audio Chip</u>: Winbond 64-Note Polyphonic Ringtone chip- W56964   [Datasheet](#)

<u>Package</u>: 32- pin QFN .5 BSC Typ.-WG (5.2mm x 6.2mm x 1 mm)
<u>Footprint</u>: QUADN.5M/32/WG6.20x5.20 – Found in personal library

<u>LCD Display</u>:

<u>Power</u>:

<u>Regulators</u>:

Definitions:
TQFP – Thin Quad Flat Pack
LQFP- Low-profile Quad Flat Pack

QUAD.###/###/WG#.###/CTX
What is in the footprint name:

Quad + Value	=	Quad + pitch, M= metric
Number	=	pin count
WG	=	width between opposing gull lead ends, ie. Spacing between the two end leads on the chip
CTX	=	Center index
SMS,TMS	=	Surface thru-hole mount sockets
BSC	=	Basic Spacing between Centers
L	=	Length