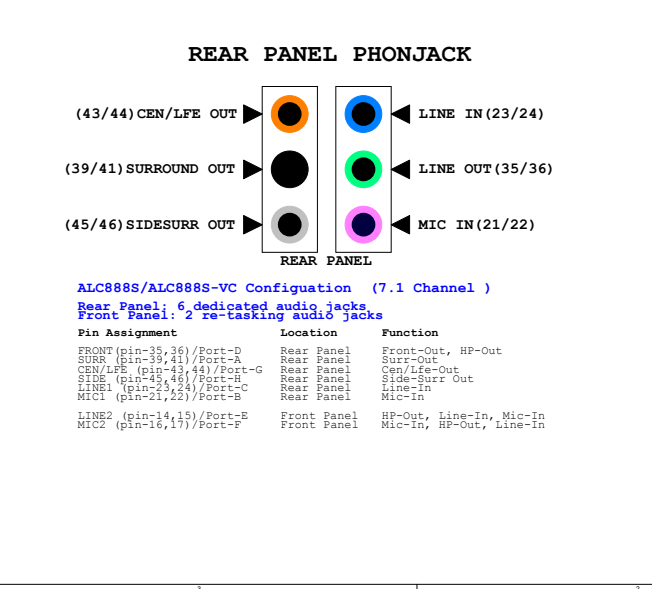
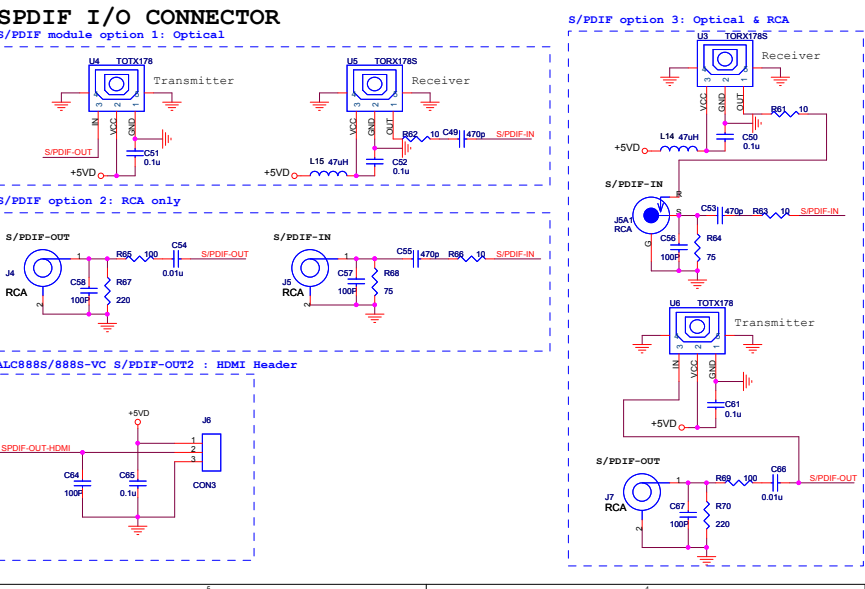
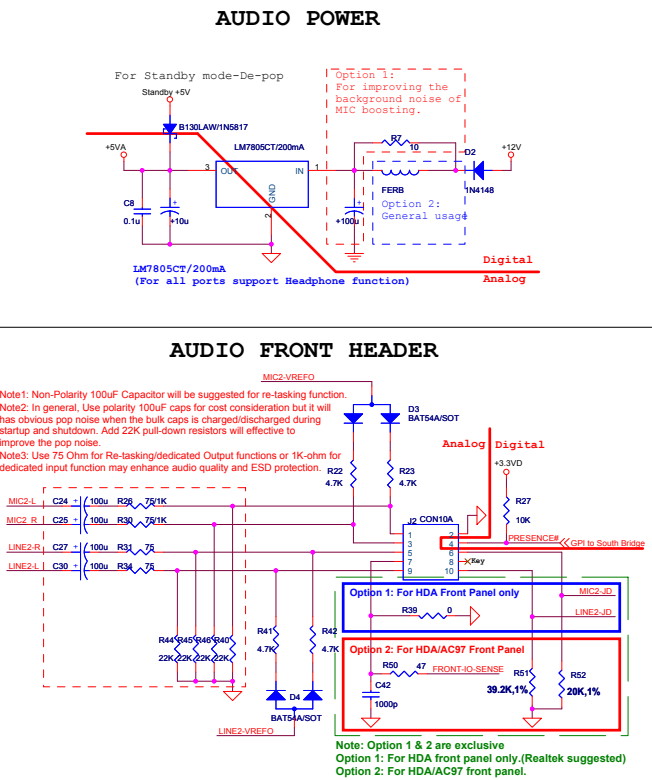
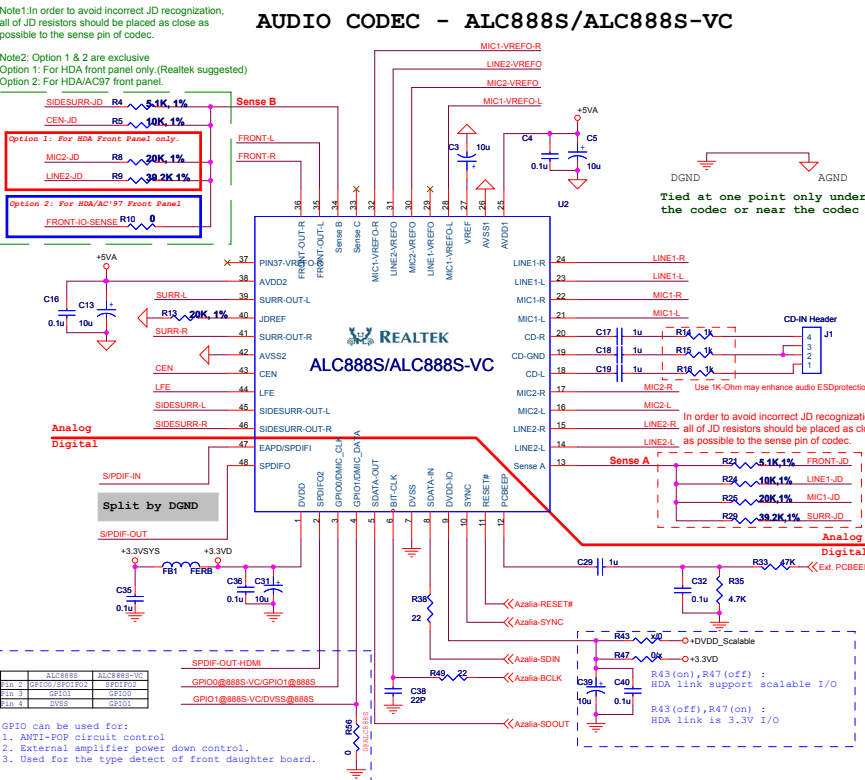
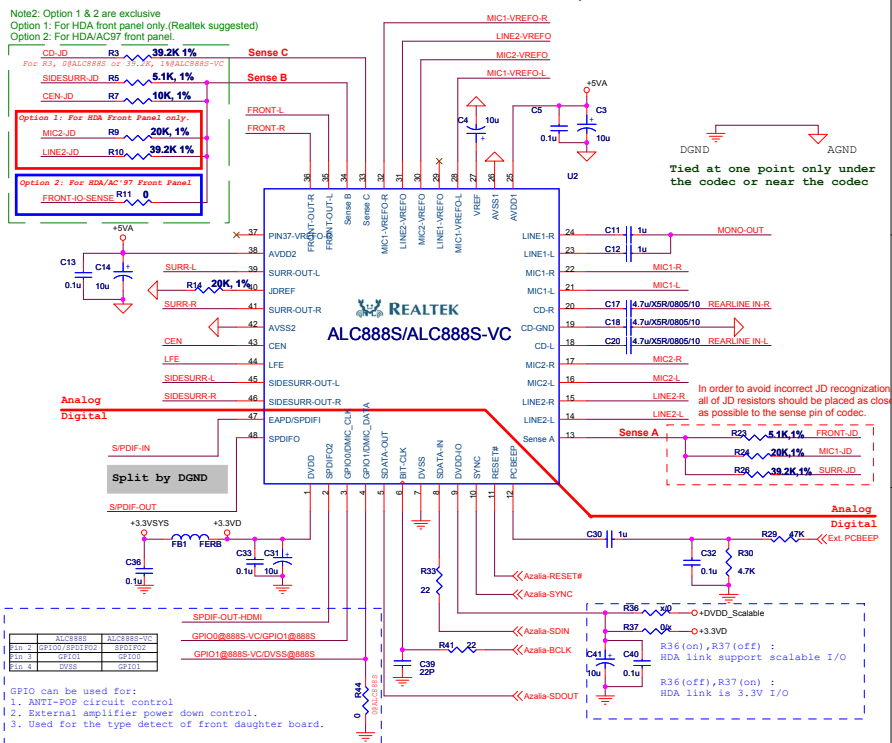




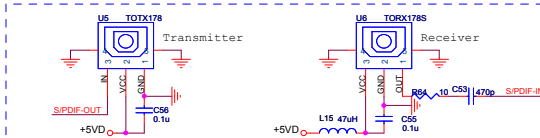
AUDIO CODEC - ALC888S/ALC888S-VC

Note2: Option 1 & 2 are exclusive
Option 1: For HDA front panel only.(Realtek suggested)
Option 2: For HDA/AC97 front panel.

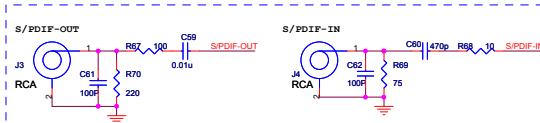


SPDIF I/O CONNECTOR

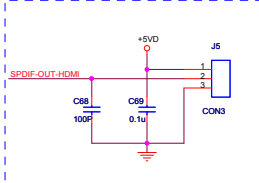
S/PDIF module option 1: Optical



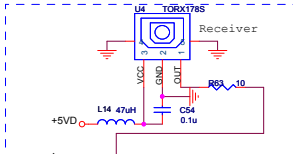
S/PDIF option 2: RCA only



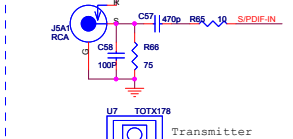
ALC888S/ALC888S-VC S/PDIF-OUT2 : HDMI Header



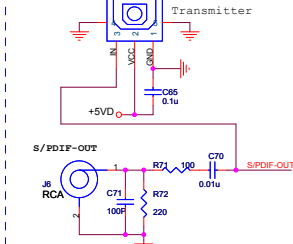
S/PDIF option 3: Optical & RCA



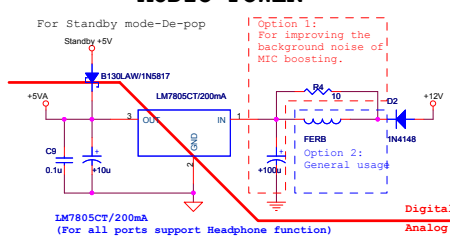
S/PDIF-IN



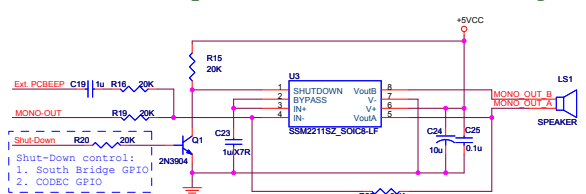
U7 TOTX178



AUDIO POWER

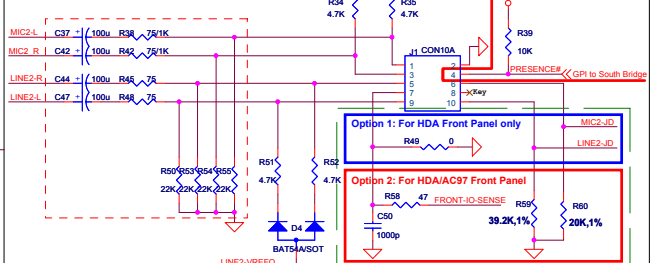


Internal Speaker recommended design



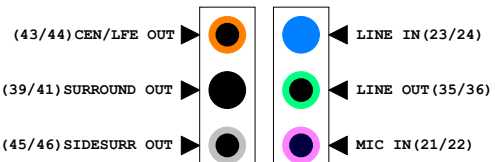
AUDIO FRONT HEADER

Note1: Non-Polarity 100uF Capacitor will be suggested for re-tasking function.
 Note2: In general, Use polarity 100uF caps for cost consideration but it will have obvious pop noise when the bulk caps is charged/discharged during startup and shutdown. Add 22K pull-down resistors will be effective to improve the pop noise.
 Note3: Use 75 Ohm for Re-tasking/dedicated Output functions or 1K-ohm for dedicated input function may enhance audio quality and ESD protection.



Note: Option 1 & 2 are exclusive
Option 1: For HDA front panel only.(Realtek suggested)
Option 2: For HDA/AC97 front panel.

REAR PANEL PHONJACK



REAR PANEL

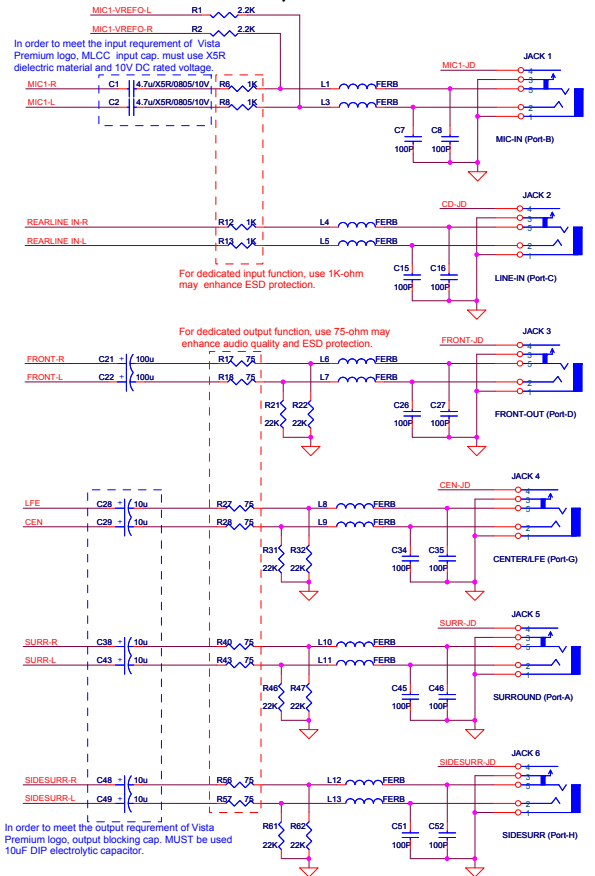
ALC888S/ALC888S-VC Configuration (7.1 Channel)

with Internal Speaker

Rear Panel: 6 dedicated audio jacks
Front Panel: 2 re-tasking audio jacks

Pin Assignment	Location	Function
FRONT (pin-35, 36) / Port-D	Rear Panel	Front-Out, HP-Out
SURR (pin-39, 41) / Port-A	Rear Panel	Surround
CD-L/R (pin-42, 43) / Port-G	Rear Panel	Surround
SIDE (pin-46) / Port-B	Rear Panel	Side-Surround
CD-L/R (pin-18, 20)	Rear Panel	Line-In
MIC1 (pin-22) / Port-B	Rear Panel	Mic-In
LINE2 (pin-14, 15) / Port-E	Front Panel	HP-Out, Line-In, Mic-In
MIC2 (pin-16, 17) / Port-F	Front Panel	Mic-In, HP-Out, Line-In
MIC3 (pin-23, 24) / Port-C	Internal	Internal MONO Speaker

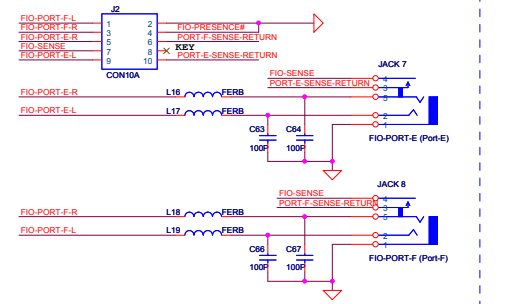
ANALOG I/O CONNECTOR



In order to meet the output requirement of Vista Premium logo, output blocking cap. MUST be used 10uF DIP electrolytic capacitor.

HD Audio Front Panel I/O Module

PORT-E (LINE2) and PORT-F (MIC2) are front panel I/O



Realtek Semiconductor, Corp.

ALC888S/ALC888S-VC Demo Circuit

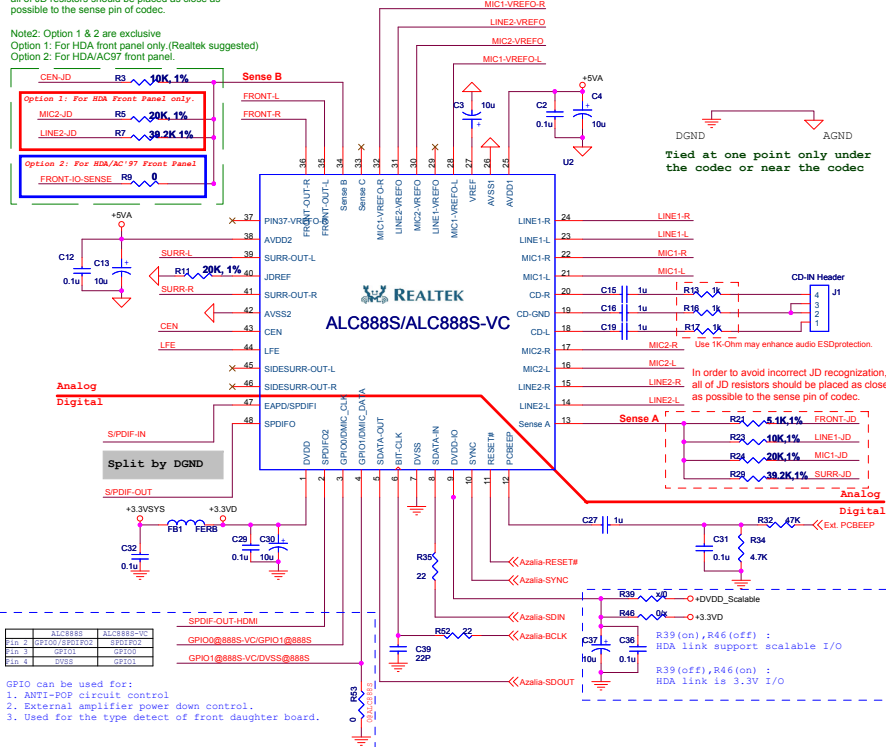
Size	Document Number	Rev
	Desktop Config 1 (6+2 Solution with Internal Sneaker)	0

Date: Monday, March 31, 2008 Sheet 2 of 4

AUDIO CODEC - ALC888S/ALC888S-VC

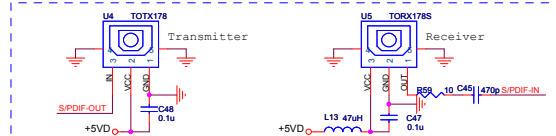
Note1: In order to avoid incorrect JD recognition, all of JD resistors should be placed as close as possible to the sense pin of code.

Note2: Option 1 & 2 are exclusive
Option 1: For HDA front panel only (Realtek suggested)
Option 2: For HDA/AC97 front panel.

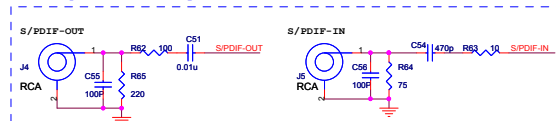


SPDIF I/O CONNECTOR

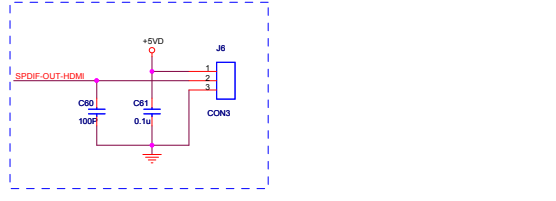
S/PDIF module option 1: Optical



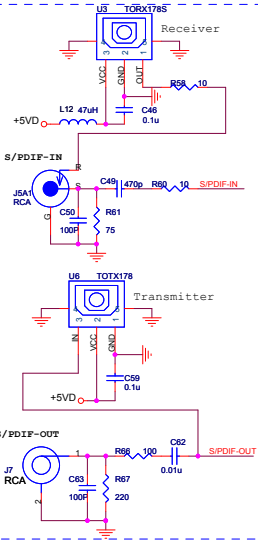
S/PDIF option 2: RCA only



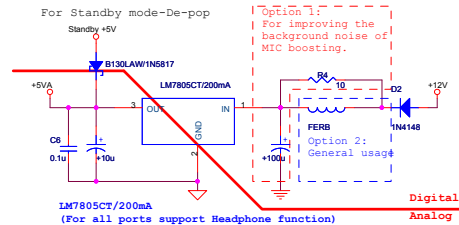
ALC888S/ALC888S-VC S/PDIF-OUT2 : HDMI Header



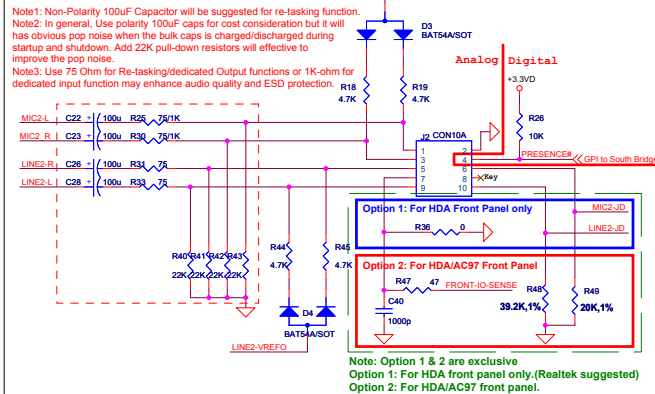
S/PDIF option 3: Optical & RCA



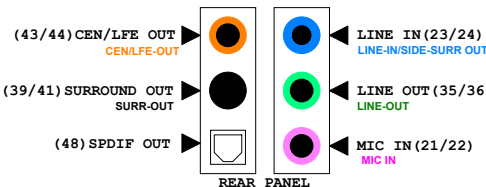
AUDIO POWER



AUDIO FRONT HEADER



REAR PANEL PHONJACK



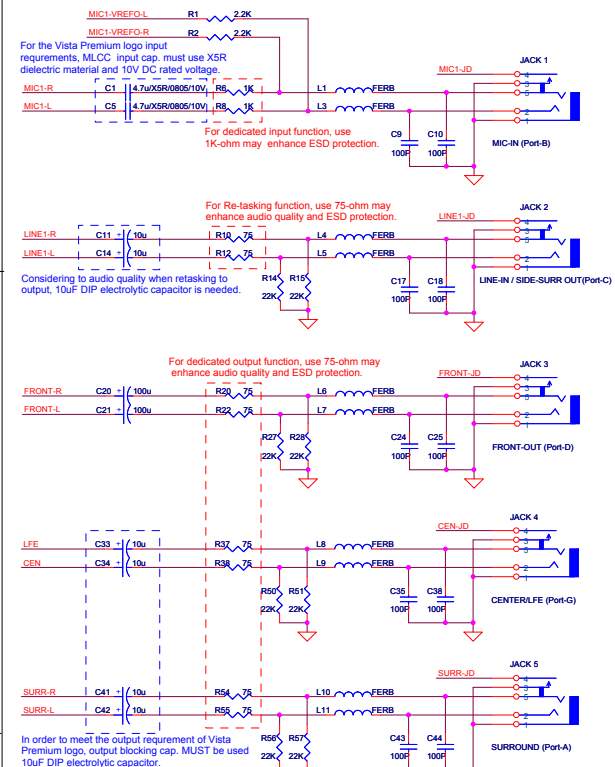
ALC888S/ALC888S-VC Configuration (7.1 Channel)

Rear Panel: 5 audio jacks + 1 SPDIF output

Front Panel: 2 re-tasking audio jacks

Pin Assignment	Location	Function
FRONT (pin-35,36)/Port-D	Rear Panel	Front-Out, HP-Out
SURR (pin-39,41)/Port-A	Rear Panel	Surround-Out
CEN/LFE (pin-43,44)/Port-G	Rear Panel	Cen/Lfe-Out
LINE1 (pin-23,24)/Port-C	Rear Panel	Line-In/Side-Surr Out
MIC1 (pin-21,22)/Port-B	Rear Panel	Mic-In
SPDIF OUT (pin-48)	Rear Panel	RCA / OPTICAL SPDIF OUT
LINE2 (pin-14,15)/Port-E	Front Panel	HP-Out, Line-In, Mic-In
MIC2 (pin-16,17)/Port-F	Front Panel	Mic-In, HP-Out, Line-In

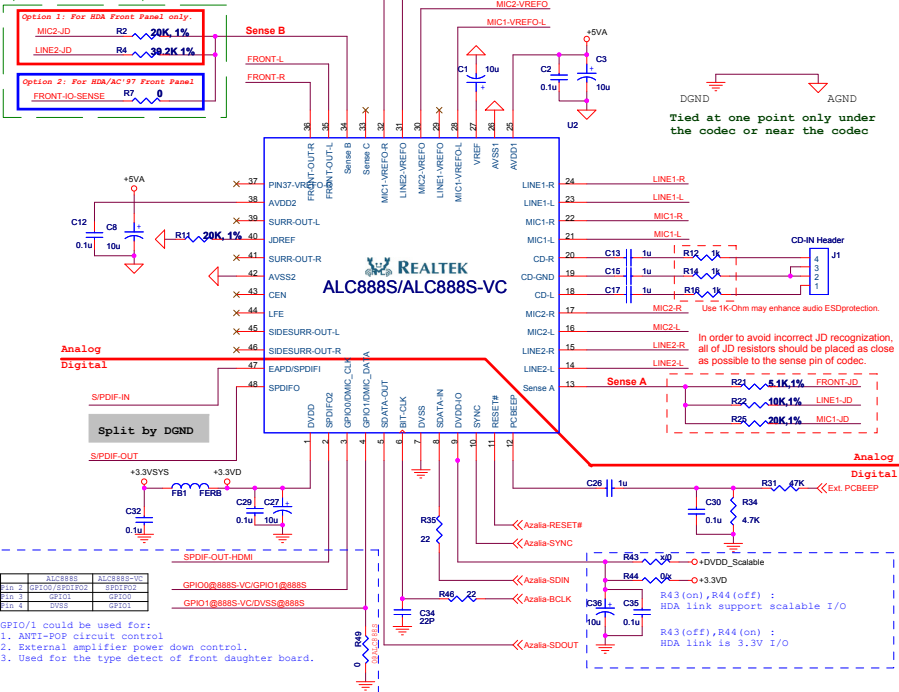
ANALOG I/O CONNECTOR



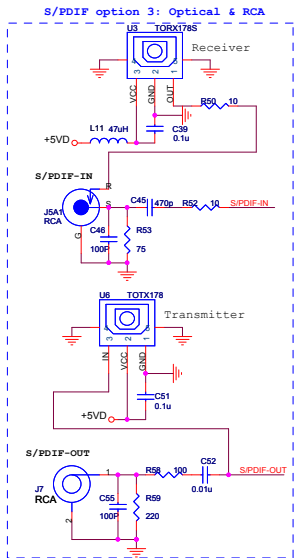
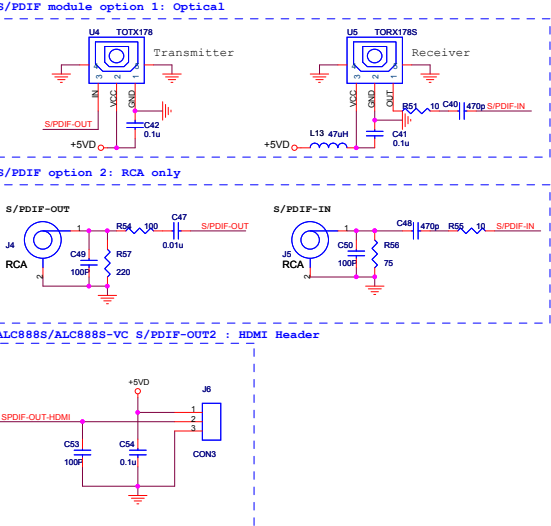
Note1: In order to avoid incorrect JD recognition, all of JD resistors should be placed as close as possible to the sense pin of codec.

Note2: Option 1 & 2 are exclusive
Option 1: For HDA front panel only (Realtek suggested)
Option 2: For HDA/AC97 front panel

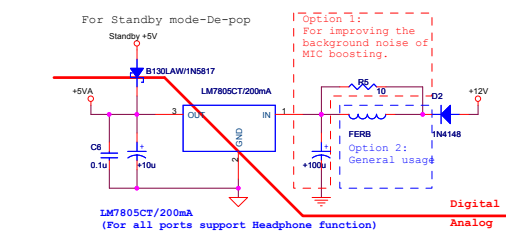
AUDIO CODEC - ALC888S/ALC888S-VC



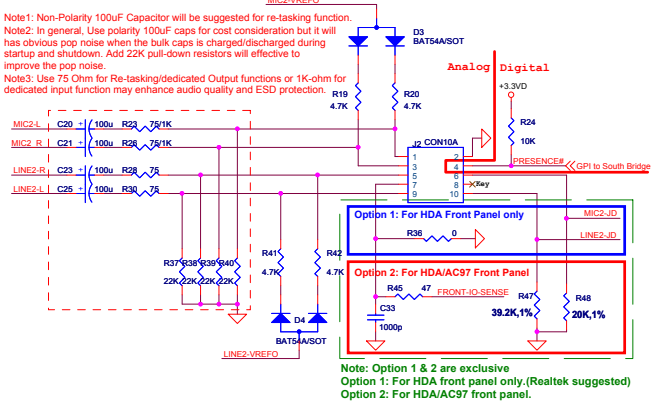
SPDIF I/O CONNECTOR



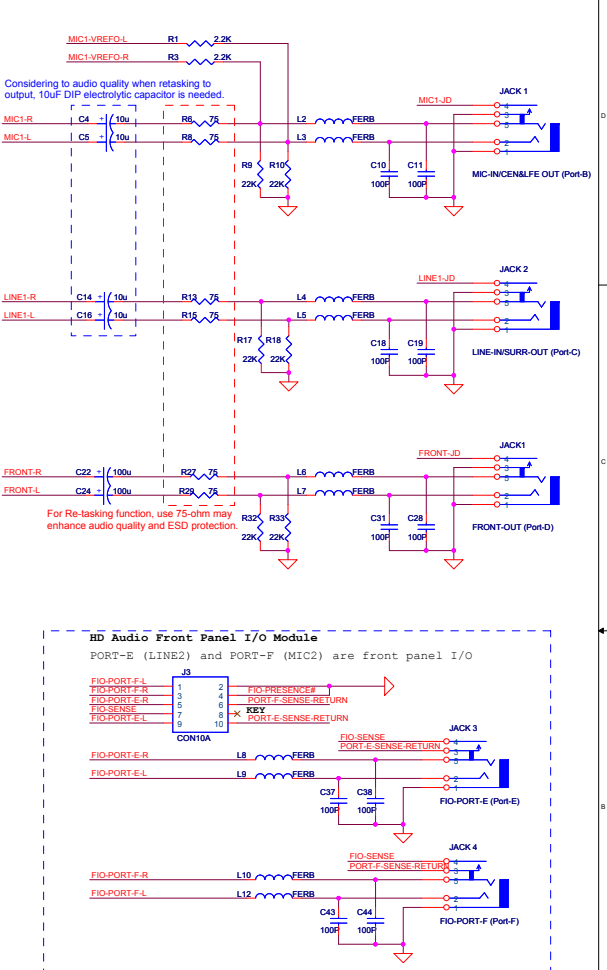
AUDIO POWER



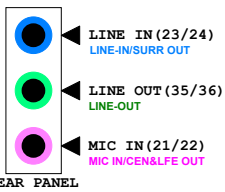
AUDIO FRONT HEADER



ANALOG I/O CONNECTOR



REAR PANEL PHONJACK



ALC888S/ALC888S-VC Configuration (5.1 Channel)

Rear Panel: 3 shared audio jacks
Front Panel: 2 re-tasking audio jacks

Pin Assignment	Location	Function
FRONT (pin-35,36)/Port-D	Rear Panel	Front-Out, HP-Out
LINE1 (pin-23,24)/Port-C	Rear Panel	Line-In/Surr-Out
MIC1 (pin-21,22)/Port-B	Rear Panel	Mic-In/Gen/Life-Out
LINE2 (pin-14,15)/Port-E	Front Panel	HP-Out, Line-In, Mic-In
MIC2 (pin-16,17)/Port-F	Front Panel	Mic-In, HP-Out, Line-In