


# LCFC Confidential

## DY51 IO board Schematics Document

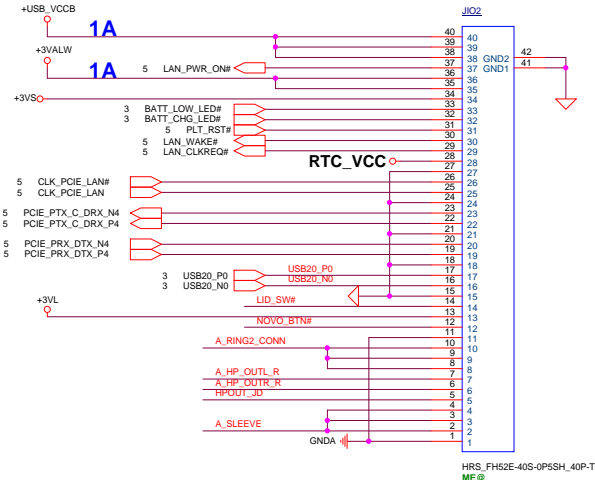
IO Board NS-B191

2016-11-25

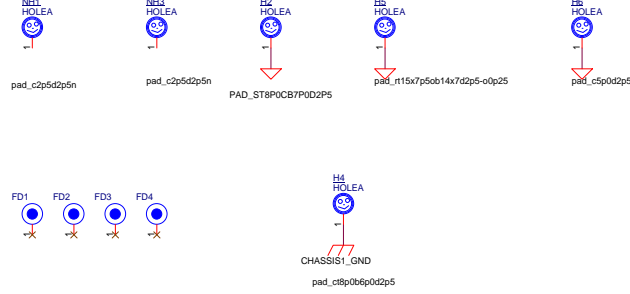
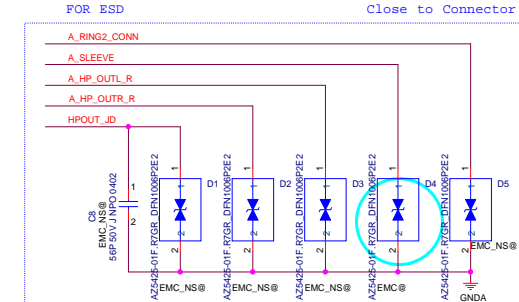
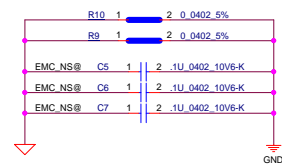
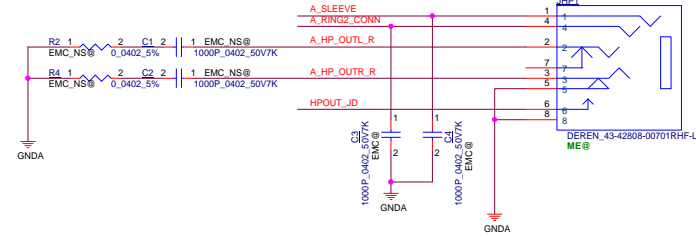
REV:1.0

Security Classification	LC Future Center Secret Data			Title	
Issued Date	2015/6/23	Deciphered Date	2015/6/23	Cover Page	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Size Document Number Rev Custom DY512 IO board 1.0	
				Date: Friday, November 25, 2016 Sheet 1 of 6	

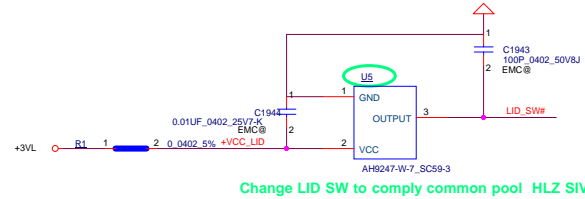
## USB I/O Connector



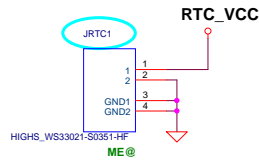
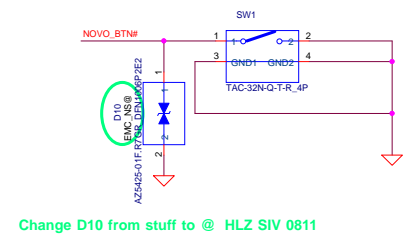
## HP/MIC Jack



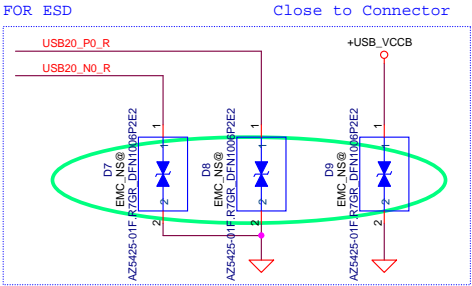
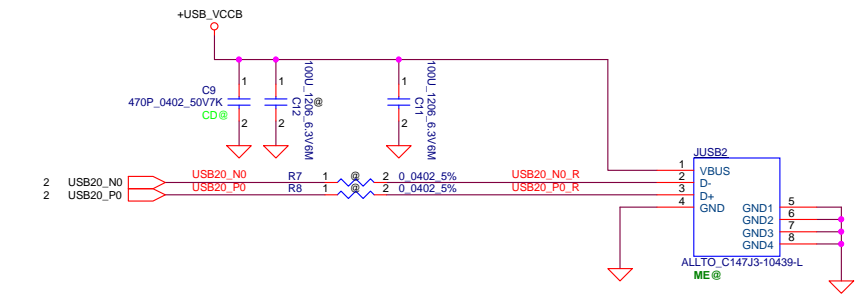
## Hall Sensor



## NOVO Button



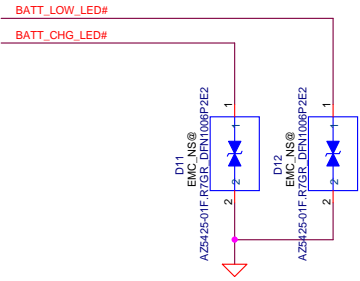
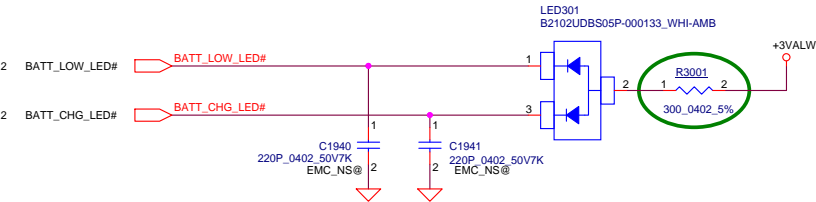
USB2.0 Port



Change D7&D8&D9 from stuff to @ HLZ SIV 0811

Charger LED

Change R3001 from 1K to 300ohm due to Amber is weak Hai Y520 SVT



Security Classification	LC Future Center Secret Data			Title	USB2/BATT LED	
Issued Date	2015/6/23	Deciphered Date	2015/6/23	Size	Document Number	Rev
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Custom	DY512 IO board	1.0
				Date:	Friday, November 25, 2016	Sheet 3 of 6

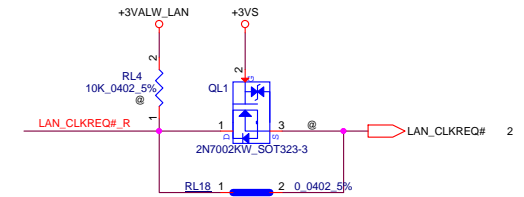
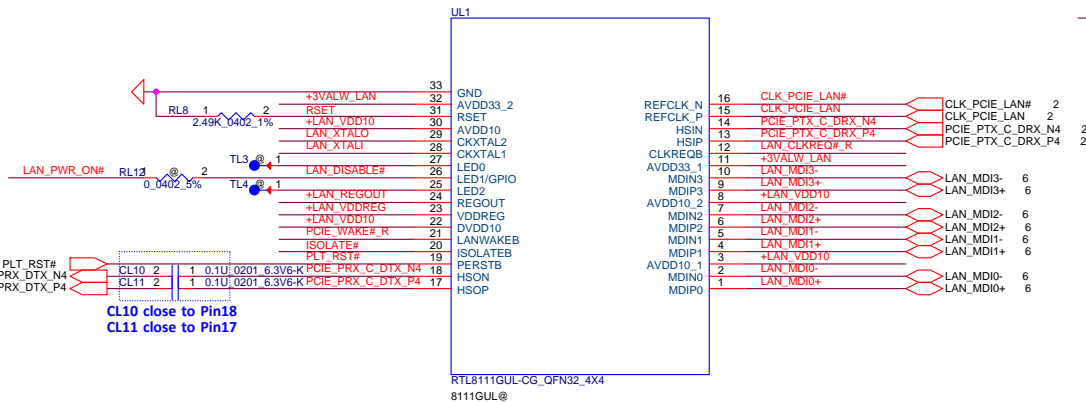
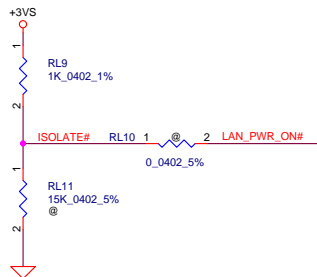
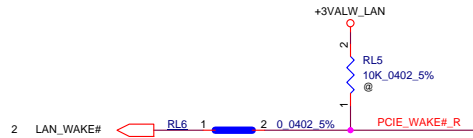
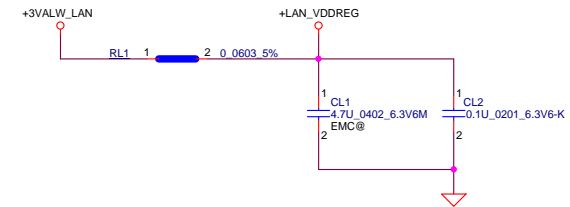
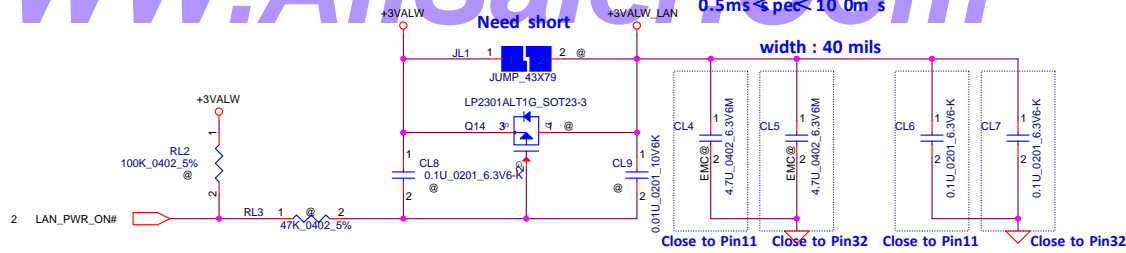


+3VALW TO +3VALW\_LAN

+3VALW LAN rising time (10%~90%)  
0.5ms ≤ t<sub>pe</sub> < 10.0ms

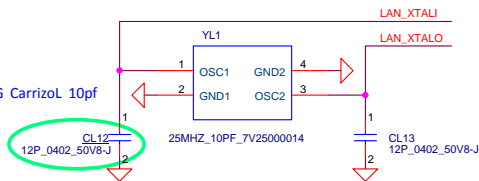
Need short

width : 40 mils



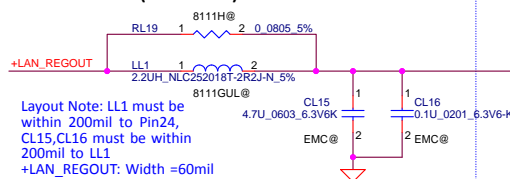
APU CLKREQ all both 3VS power plane

follow G Carrizol 10pf

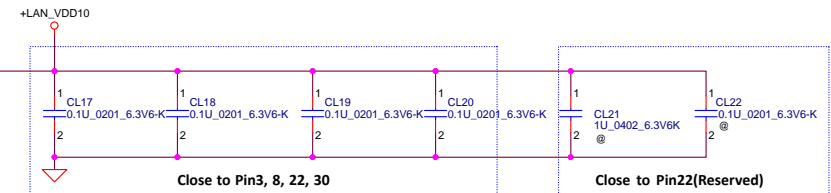



Change CL12 from 10P to 12P! HLZ SIV 0811

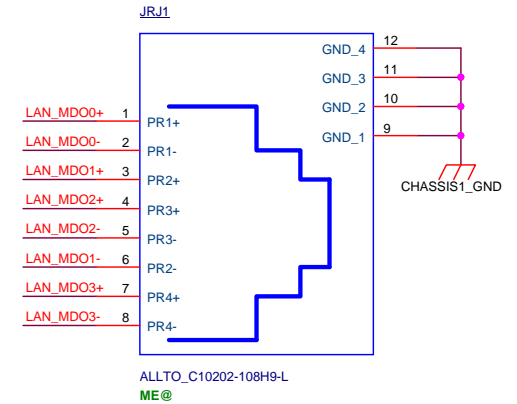
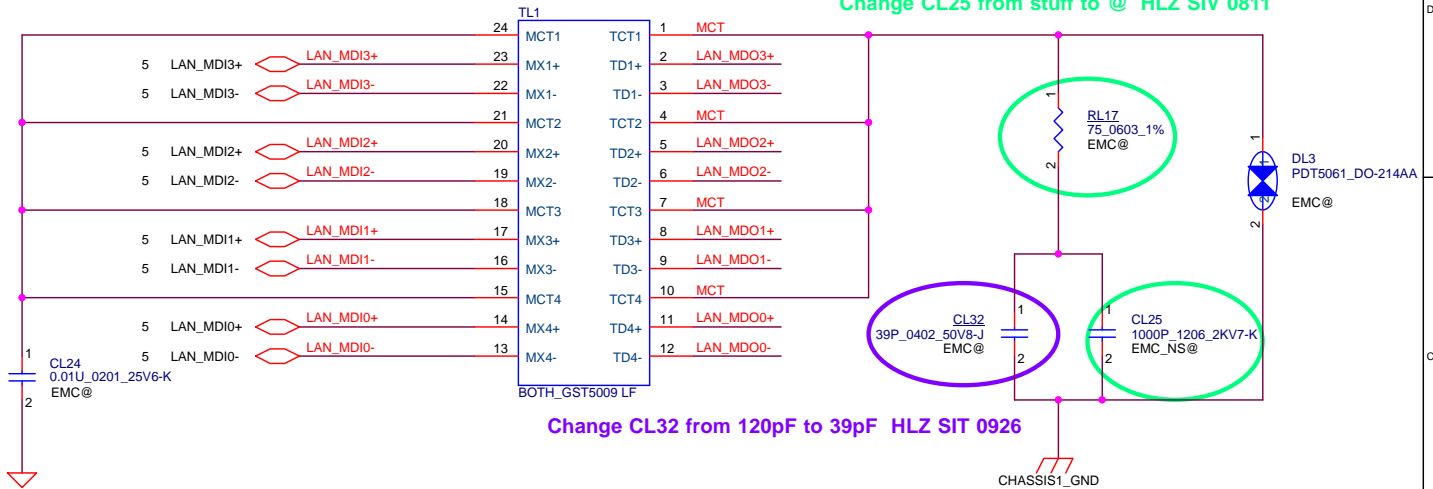
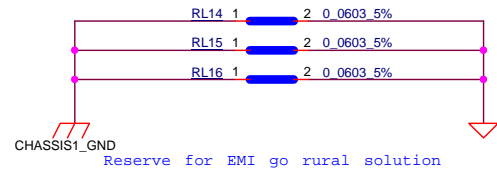
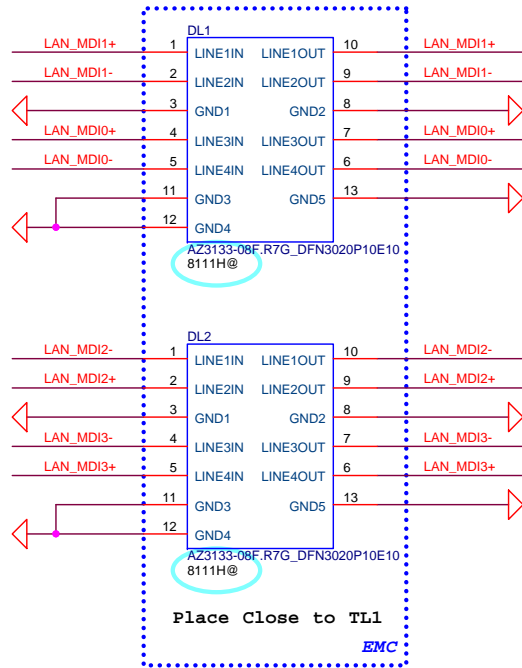
For RTL8111GUL/ RTL8106EUL (SWR mode)  
For RTL8111H (LDO mode) RL19 stuff



Layout Note: LL1 must be within 200mil to Pin24, CL15, CL16 must be within 200mil to LL1  
+LAN\_REGOUT: Width =60mil



Security Classification	LC Future Center Secret Data			Title	
Issued Date	2013/08/08	Deciphered Date	2013/08/05	LAN_RTL8111GUL	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.					Size Document Number Custom DY512 IO board Date: Friday, November 25, 2016 Sheet 5 of 6
					Rev 1.0



Security Classification		LC Future Center Secret Data		Title	
Issued Date	2013/08/08	Deciphered Date	2013/08/05	LAN_Transformer	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Size	Document Number
				Date:	Friday, November 25, 2016
				Rev	1.0
				Sheet	6 of 6