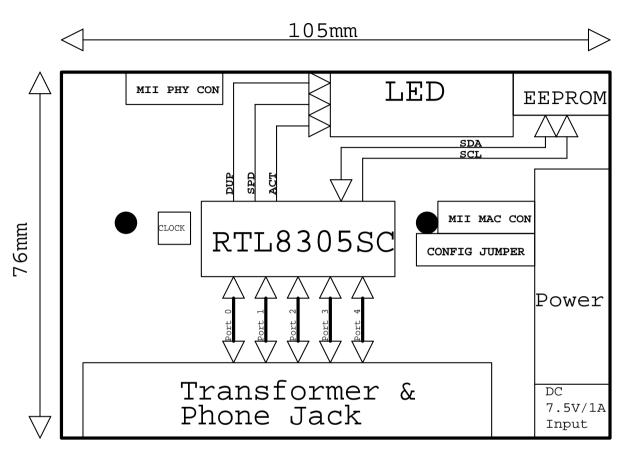
RTL8305SC Demo Board 5 port UTP



Note:

- 1: The demo board is 2 layer PCB and 1 side SMD for RTL8305SC.
- 2: Crystal shunt capacitor C50 and C51 should use 18pF.
- 3: L5~L8 are used for EMI test, optional for customers.
- 4: R13, IBREF resister should use 1.96K ohm.
- 5: J2 is for Port4 PHY circuit MII interface connector.
- 6: J3 is for Port4 MAC circuit MII interface connector.
- 7: R75 and R76 is for internal test, don't need for customers.
- 8. R78 is used for PHY2TXEN pull down resister.
 When L2 dump switch test should not be assembled.
 When enable Dual MII function, the resister should be assembled.

RTL8305SC Demo Board Revision History		
1.0	First release	
1.1	Add R77 for MRXDV_PTXEN and R78 for PHY2TXEN pull down resisters when enable Port 4 MII function and Dual MII function.	
2.0	PCB layout change to v.2.0 Power solution: C45 change to 470pF & R53, R54, R56, L11 short and removed for improve EMI. L5, L6, L7, L8 change to 1000pF/2KV for improve EMI. Seperate RV1, RV2 circuit, and add RV4, RV5. RV1-RV5 change to 68pF/2KV for improve EMI. Add C55, C56, C57 at DC Jack CN1 for improve EMI. J1 change to 1*4 connector and add 3.3V at pin 4. J4 change to 2*7 connector and remove EN_DEFER setting pin. J3.3 MDC & J3.4 MCIO pin change to NC pin.	

RTL8305SC 5 Port Switch Demo Board Configuration Resister			
R8	Defer enable/disable, open to enable and short to		
	disable		
T3/3, 4	Port 4 Link Status Control, short with jumper to		
R9	force Port 4 link		
R9 T3/5, 6	Port 4 Duplex Control, open for full duplex and short		
R10 T3/7, 8	for half duplex		
т3/7, 8	Port 4 Speed Control, open for 100Mbps and short for		
R11	10Mpbs		
Т3/9, 10	Port 4 Flow Control, open for enable and short for		
R12	disable full duplex flow control		
T3/11, 12	Port4 Mode Control, [11]: UTP/MII MAC; [10]:		
Т3/13, 14	100Base-FX; [01]: MII PHY; [00]: SNI PHY		
R13, R14			
Т3/15, 16	Disable Dual MII, short to enable Dual MII function		
R15			
R6	Broadcast strom control enable/disable, open to		
	disable and short to enable		
R7	Backpressure enable/disable, open to enable and short		
	to disable		
RH1/RH2,	Broadcast Input/Output drop, RH1/RH2 for input drop		
RL1/RL2	and RL1/RL2 for output drop		

Realtek Semiconductor Corp.					
Title R1	TL8305SC DEMO BOARD	Author: Alex Lin			
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