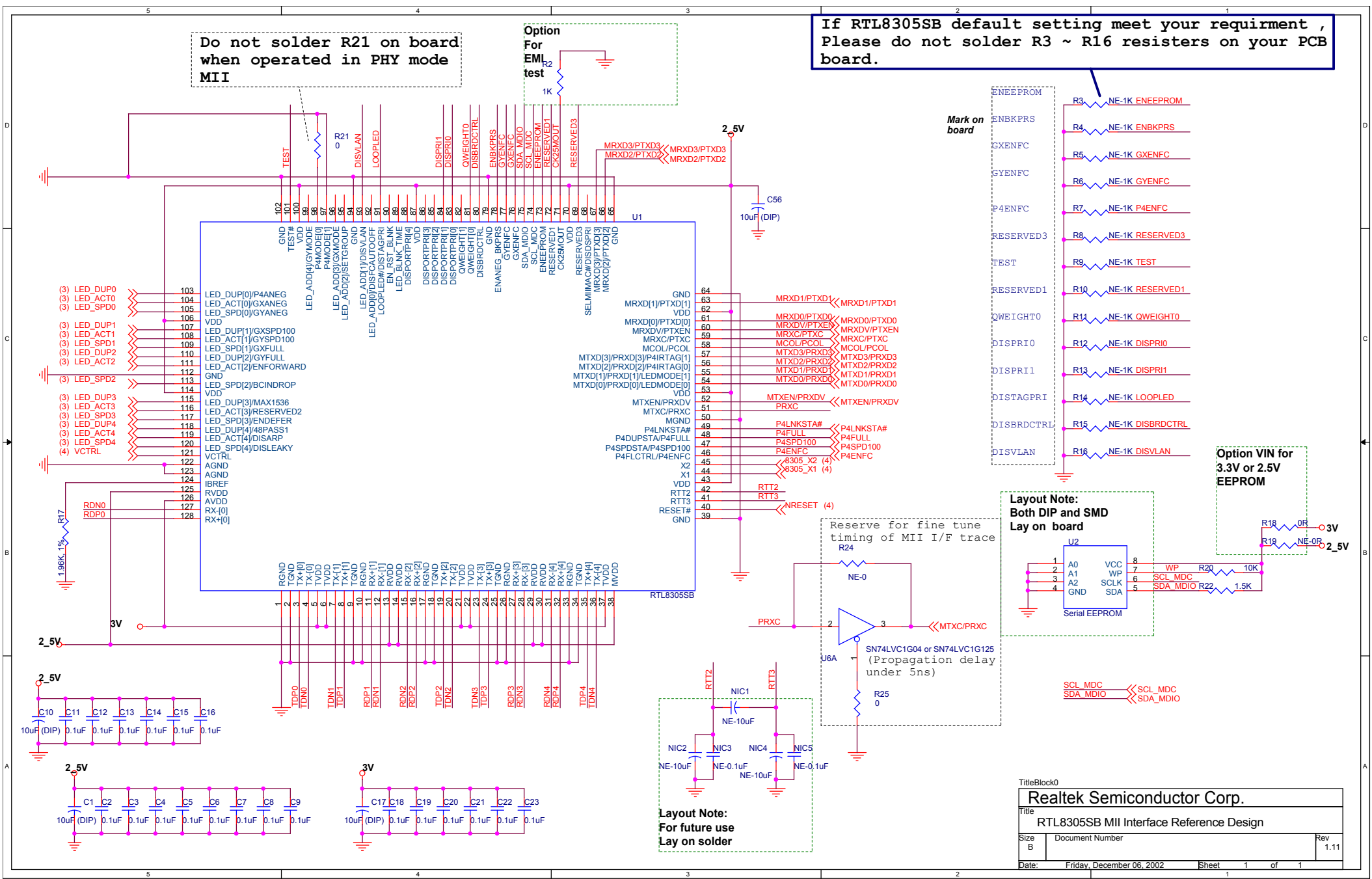


Do not solder R21 on board when operated in PHY mode MII

Option For EMI test  
R2  
1K

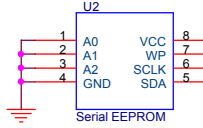
If RTL8305SB default setting meet your requirement , Please do not solder R3 ~ R16 resistors on your PCB board.



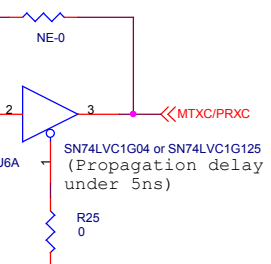
Mark on board

Option VIN for 3.3V or 2.5V EEPROM

Layout Note: Both DIP and SMD Lay on board



Reserve for fine tune timing of MII I/F trace



Layout Note: For future use Lay on solder

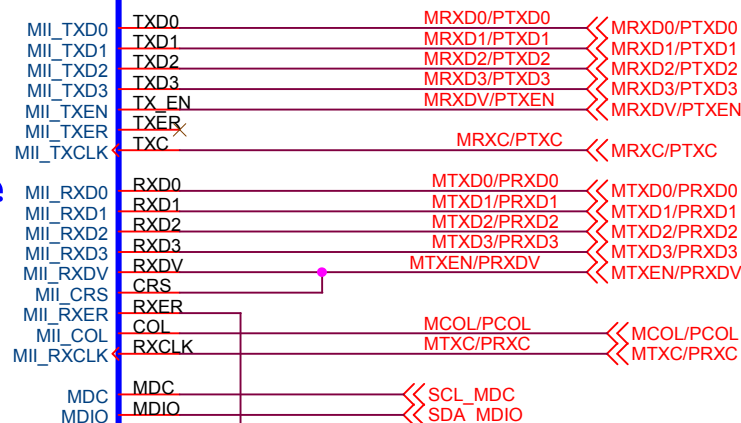
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Realtek Semiconductor Corp.			
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RTL8305SB MII Interface Reference Design			
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# Note:

RTL8305SB			Connect to CPU pins	
PIN NAME	PIN#	TYPE	SNI mode (MPC850)	MII mode
MTXC/PRXC MTXEN/PRXDV MTXD0/PRXD0 MTXD1/PRXD1 MTXD2/PRXD2 MTXD3/PRXD3 MCOL/PCOL MRXC/PTXC MRXDV/PTXEN MRX0/PTXD0 MRXD1/PTXD1 MRXD2/PTXD2 MRXD3/PTXD3	51 52 54 55 56 57 58 59 60 61 63 66 67	O O O O O O O O I I I I I	RXC ( RCLK ) RXDV&CRS ( CD ) RXD ( RXD ) floating floating floating COL ( CTS ) TXC ( TCLK ) TXEN ( RTS ) TXD ( TXD ) floating floating floating	RXC RXDV&CRS RXD0 RXD1 RXD2 RXD3 COL TXC TXEN TXD0 TXD1 TXD2 TXD3
P4MODE[0]	98	I	strapped low	floating
P4LNKSTA# P4FULL P4SPD100 P4ENFC	49 48 47 46	I I I I		LOW FOR LINK ON Floating OR Pull up FOR FULL DUPLEX Floating or Pull up FOR 100M Floating or Pull up FOR FLOW CONTROL ON

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## CPU MAC Interface



### Note:

RTL8305SB's port 4 MII Interface PHY address = 4, and register of port 4 only the register bit 1.2(Link Status) , 0.13(Spd\_Sel) , 0.8(Duplex Mode) could be read by Serial management Interface (MDC/MDIO) .

\*\*\* If you force the CPU MAC to operated in force mode then the MDC/MDIO are not used.

\*\*\* The MII signals trace length should not longer than 10 cm and trace width should great than 10 mil atleast.

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Gateway/Router application

Rev  
1.11

Date: Friday, December 06, 2002

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