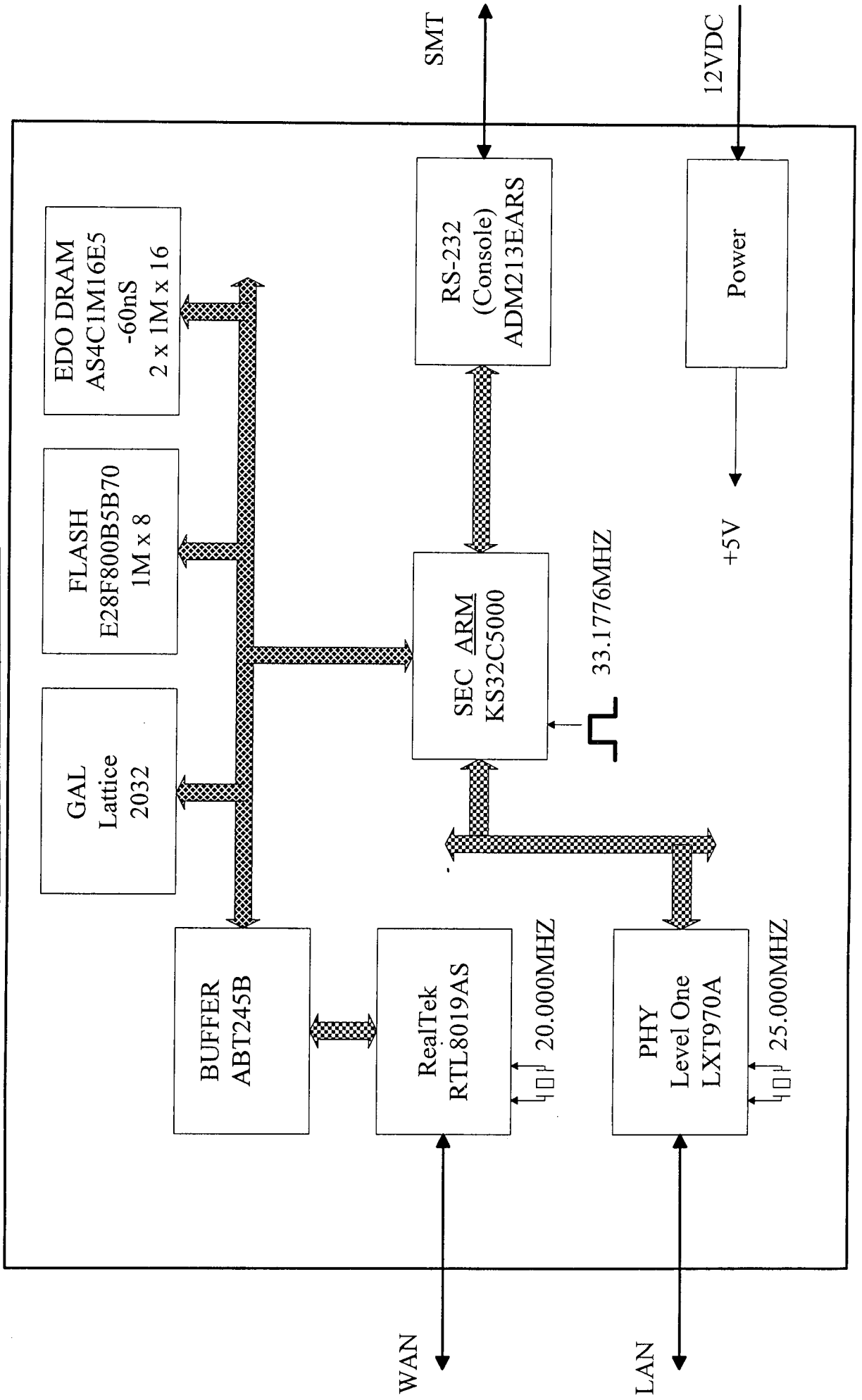


# Hardware Block Diagram of Prestige 312

FCC ID: I88PRESTIGE310





合勤科技股份有限公司

TITLE: P312

DRN: DWG (DWG NO)

CKD: REV: B2

APPD: SHEET 2 OF 7

Amendment History

Date	Release	Description
10/28/1999	B1	Sample
11/12/2001	B2	Release

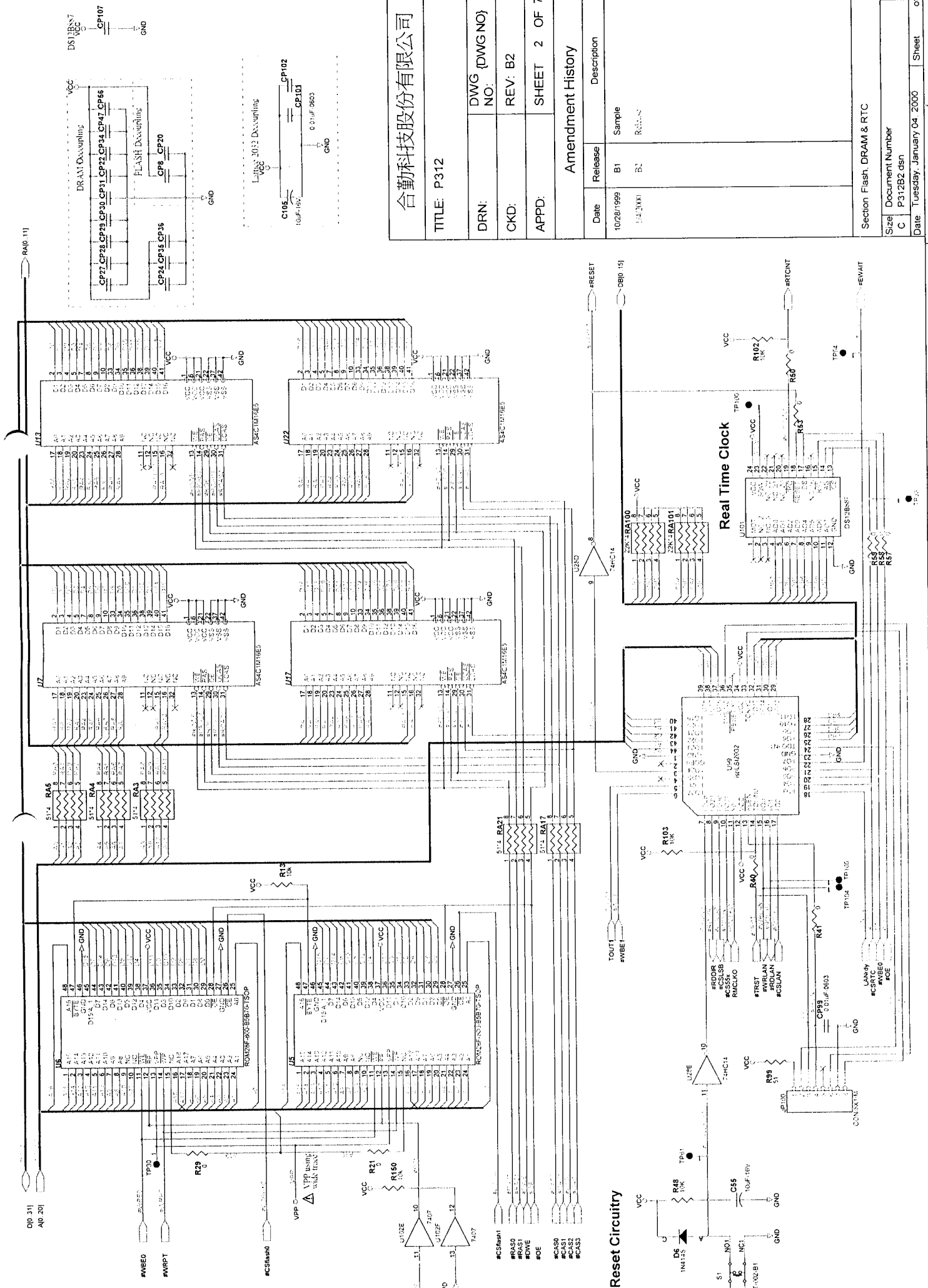
Section Flash, DRAM & RTC

Size: Document Number

C: P312B2.dsn

Date: Tuesday, January 04, 2000

Sheet of







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TITLE: P312

DRN: DWG (DWG NO)

CKD: REV: B2

APPD: SHEET 5 OF 7

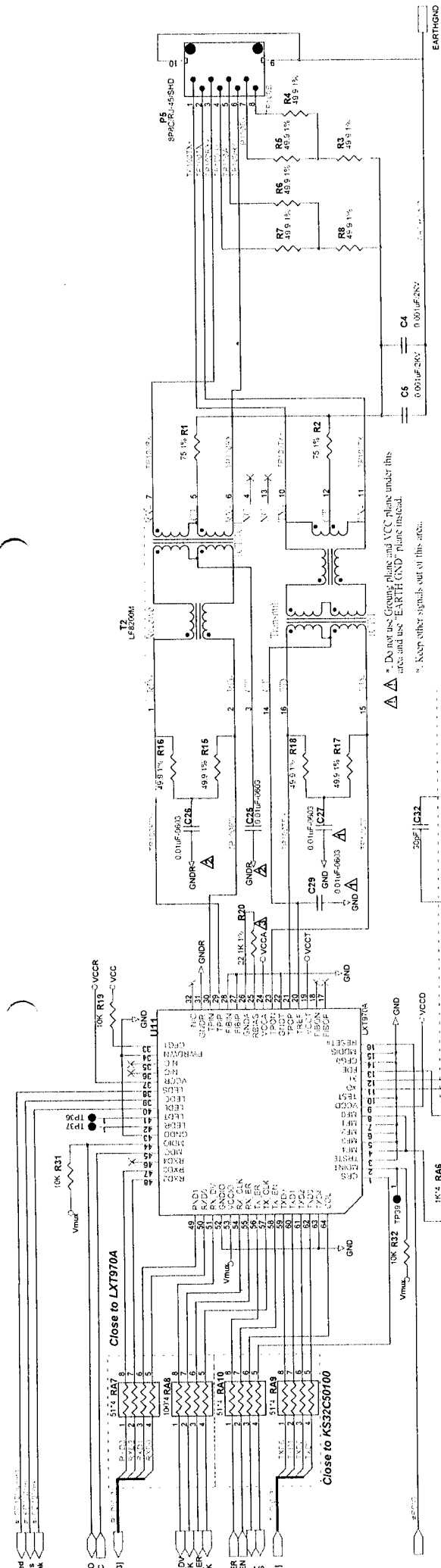
Amendment History

Date	Release	Description
10/28/1999	B1	Sample
1/12/2000	B2	REWORK

Section 10/100 LAN interface

Size	Document Number	Rev
C	P312B2.dsn	B2

Date Tuesday, January 04, 2000 Sheet



Keep the LXT970, magnetics, and RJ45 connector as close together as possible.

Route the transmit and receive pairs differentially and keep them as short as possible, e.g.

- (1) TP100TD+ & TP100TD-
- (2) TP100RX+ & TP100RX-
- (3) TP100CK+ & TP100CK-
- (4) TP100T+ & TP100T-
- (5) TP100R+ & TP100R-
- (6) TP100B+ & TP100B-
- (7) TP100S+ & TP100S-
- (8) TP100E+ & TP100E-

Route traces over an unbroken ground plane. Do not route over breaks in the ground plane.

Provide shielding by placing a ground plane under TP0P and TP0N and the magnetics. Place the shielding ground plane two to three layers away to minimize shunt capacitance between the traces and the ground plane.

Keep the RTL909AS, magnetics, and RJ45 connector as close together as possible.

Route the transmit and receive pairs differentially and keep them as short as possible, e.g.

- (1) TPRT+ & TPRT-
- (2) TPIN+ & TPIN-
- (3) TPV+ & TPV-
- (4) TPR+ & TPR-
- (5) TTR+ & TTR-

Route traces over an unbroken ground plane. Do not route over breaks in the ground plane.

Provide shielding by placing a ground plane under the area including RTL909AS and magnetics. Place the shielding ground plane two to three layers away to minimize shunt capacitance between the traces and the ground plane.

Do not use Ground plane and VCC plane under this area and use EARTH GND plane instead.

Keep other signals out of this area.

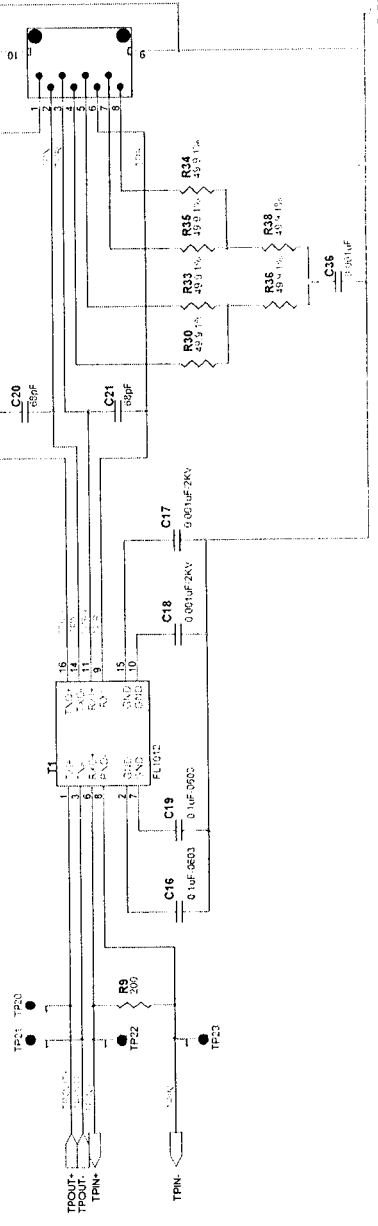
Ground close to pin 22 (GNDT) of LXT970

Ground close to pin 31 (GNDR) of LXT970

Resistor 22.1K is close to pin 35 of LXT970 and do not route signals under the resistor.

Do not use Ground plane and VCC plane under this area and use EARTH GND plane instead.

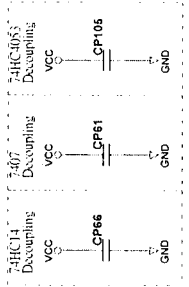
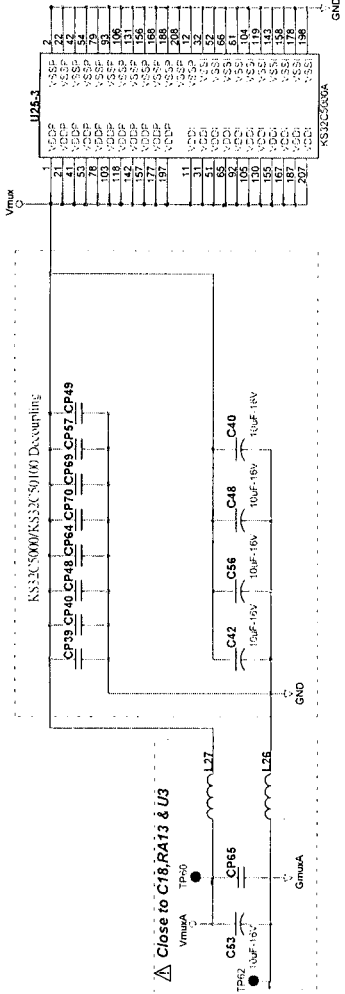
Keep other signals out of this area.



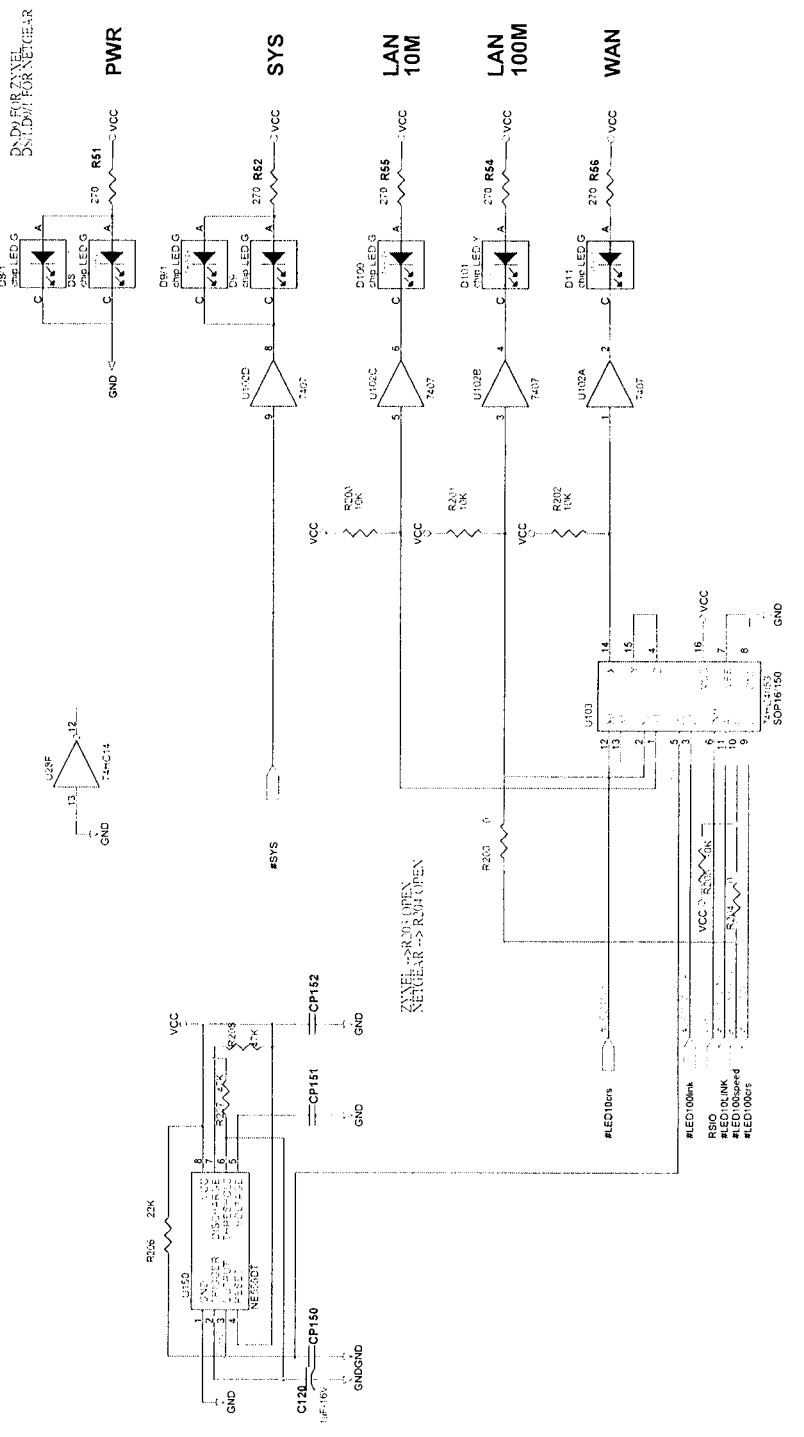
10/100Mbps TP interface

10Mbps UTP interface

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TITLE: P312		
DRN:	DWG (DWG NO)	
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APPD:	SHEET 6 OF 7	
Amendment History		
Date	Release	Description
10/28/1999	B1	Sample
11/20/00	B2	REPLAN
Section RESET, CPU POWER & LED Circuits		
Size	Document Number	Rev
C	P312B2.dsn	B2
Date	Tuesday, January 04, 2000	Sheet
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