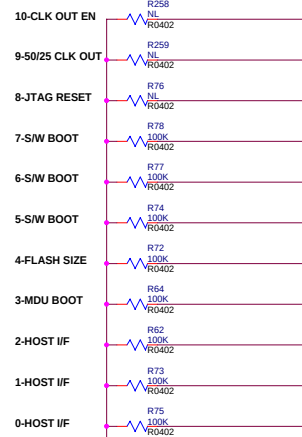


RESET CONFIGURATION BITS[10:0]



Flash size - 16 bits
MDU boot - from Flash
Host I/F 2:0
100 -> UART, NO HOST INTF

OPTIONAL pulldown resistors for embedded applications

CRITICAL: PLACE R7 CLOSE TO PIN

This R-C time constant provides about 200 ms holdoff for start of access of ARM instructions from external FLASH. Allows time for FLASH to initialize.

Make TXI_P, TXI_N, TXQ_P and TXQ_N all the same length

Make RXI_P, RXI_N, RXQ_P and RXQ_N all the same length

OPTIONAL JTAG interface

Signal Pullup Resistors are 10 kOhm
Signal Pulldown resistor is 100 kOhm
Isolation resistor R88 is 1 kOhm

88W8515

OPTIONAL Software Configuration

GPIO10----AP MODE
GPIO11----CLIENT MODE
GPIO12----RT MODE

Source Series Termination Resistors
Keep these resistors as close to 88W8515 as possible

CRITICAL: PLACE R59 CLOSE TO PIN

CRITICAL: Route Ethernet Signals Away From Clock Lines and 88W8000G control lines

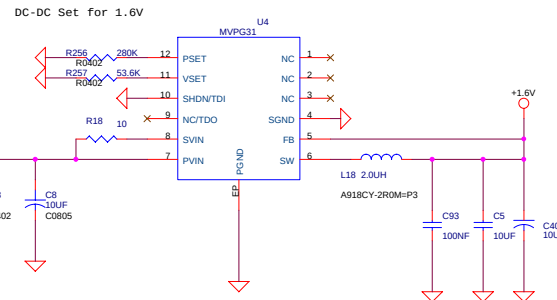
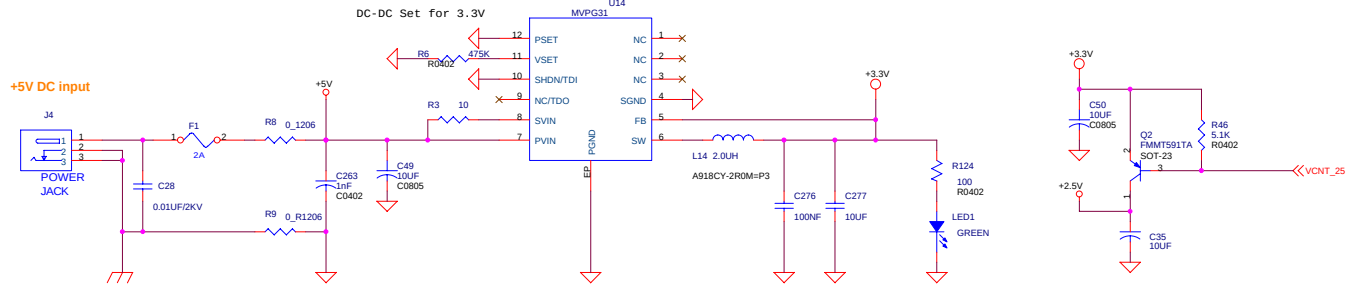
Make FERX_P and FERX_N the same routed length
Make FETX_P and FETX_N the same routed length

CRITICAL: ROUTE 88W8000G CTRL SIGNALS AWAY FROM CLOCK LINES AND OTHER NOISE SOURCES

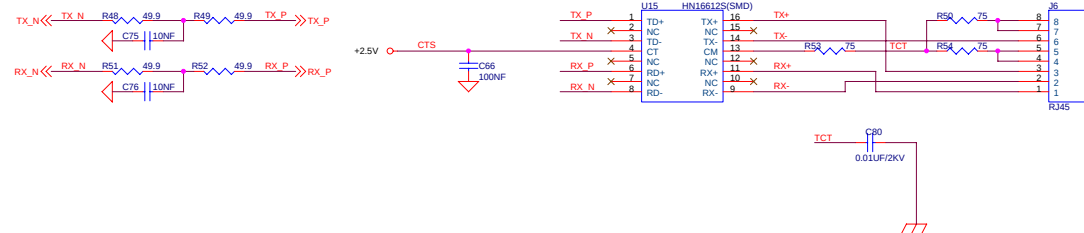
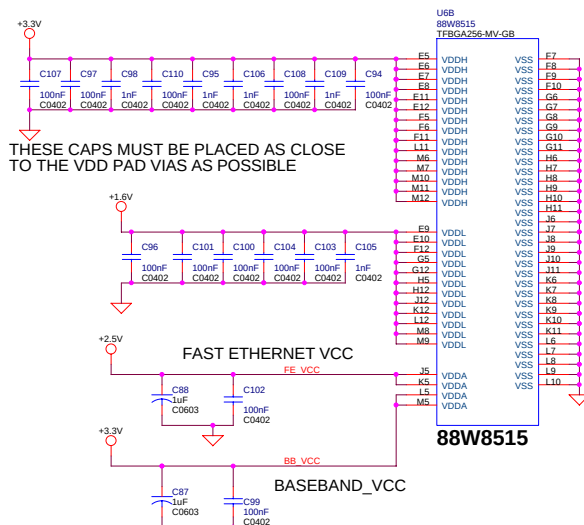
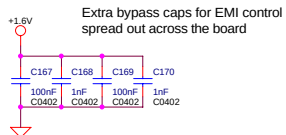


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File	AP-31 Wireless Access Point Reference Design v3.1		
Size	Document Number		Rev
C	MV-SR00045-01		-
Date	Tuesday, July 27, 2004	Sheet	2 of 5

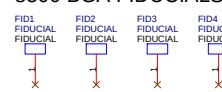
Power Regulator



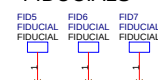
BYPASS CAPACITORS



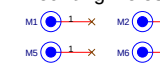
8500 BGA FIDUCIALS



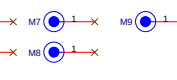
BOTTOM SIDE FIDUCIALS



Mounting Holes

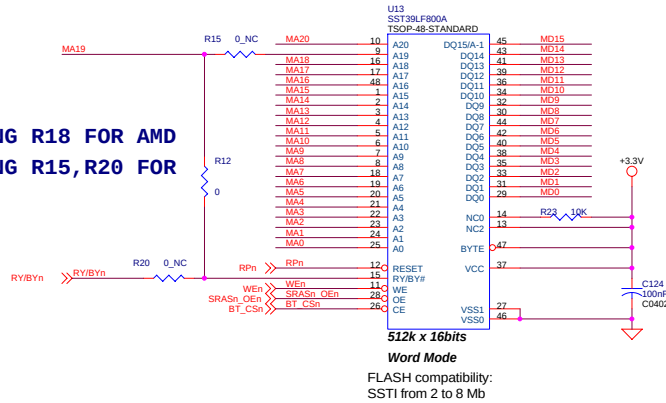


Tooling Holes



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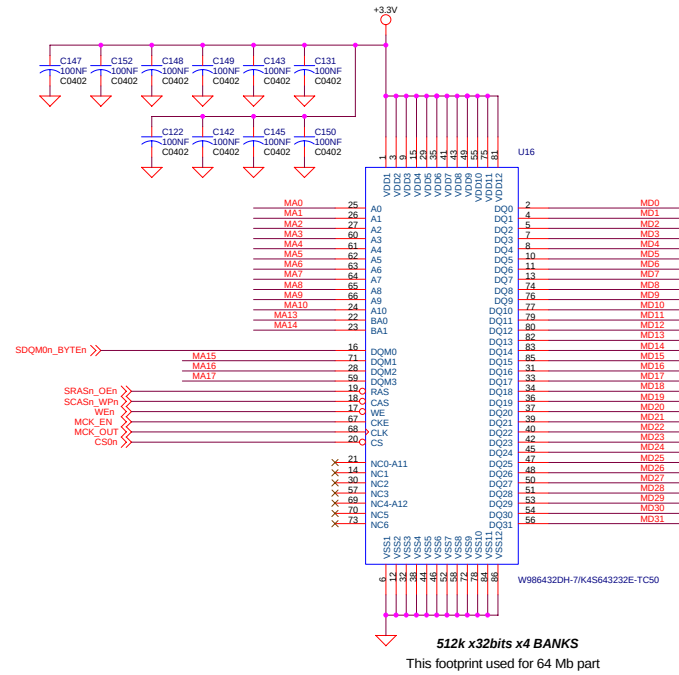
NON-MOUNTING R18 FOR AMD
NON-MOUNTING R15,R20 FOR INTEL



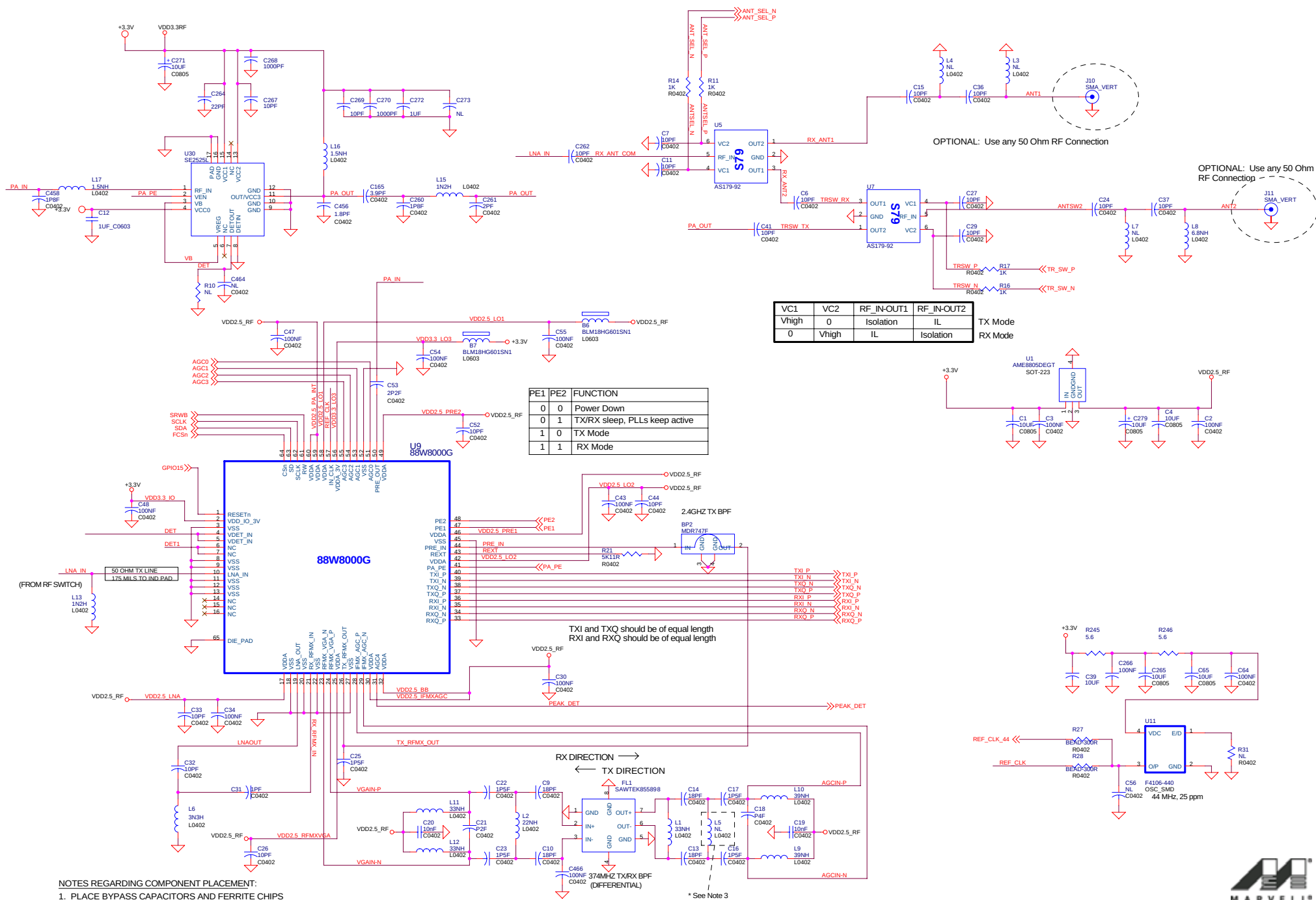
FLASH MEMORY

1MB FLASH

SDRAM MEMORY



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VC1	VC2	RF_IN-OUT1	RF_IN-OUT2	
Vhigh	0	Isolation	IL	TX Mode
0	Vhigh	IL	Isolation	RX Mode

PE1	PE2	FUNCTION
0	0	Power Down
0	1	TX/RX sleep, PLLs keep active
1	0	TX Mode
1	1	RX Mode

- NOTES REGARDING COMPONENT PLACEMENT:
1. PLACE BYPASS CAPACITORS AND FERRITE CHIPS AS CLOSE TO THE POWER PINS AS POSSIBLE.
 2. PLACE THE REXT CHIP RESISTOR AS CLOSE TO PIN 43 AS POSSIBLE.
 3. L5 USED WITH ALTERNATIVE (LG-INNOTEK) SAW FILTER ONLY.
(See alternate SAW filter datasheet for information on alternate component values for L2; L9; C10; L1; C13; C14).