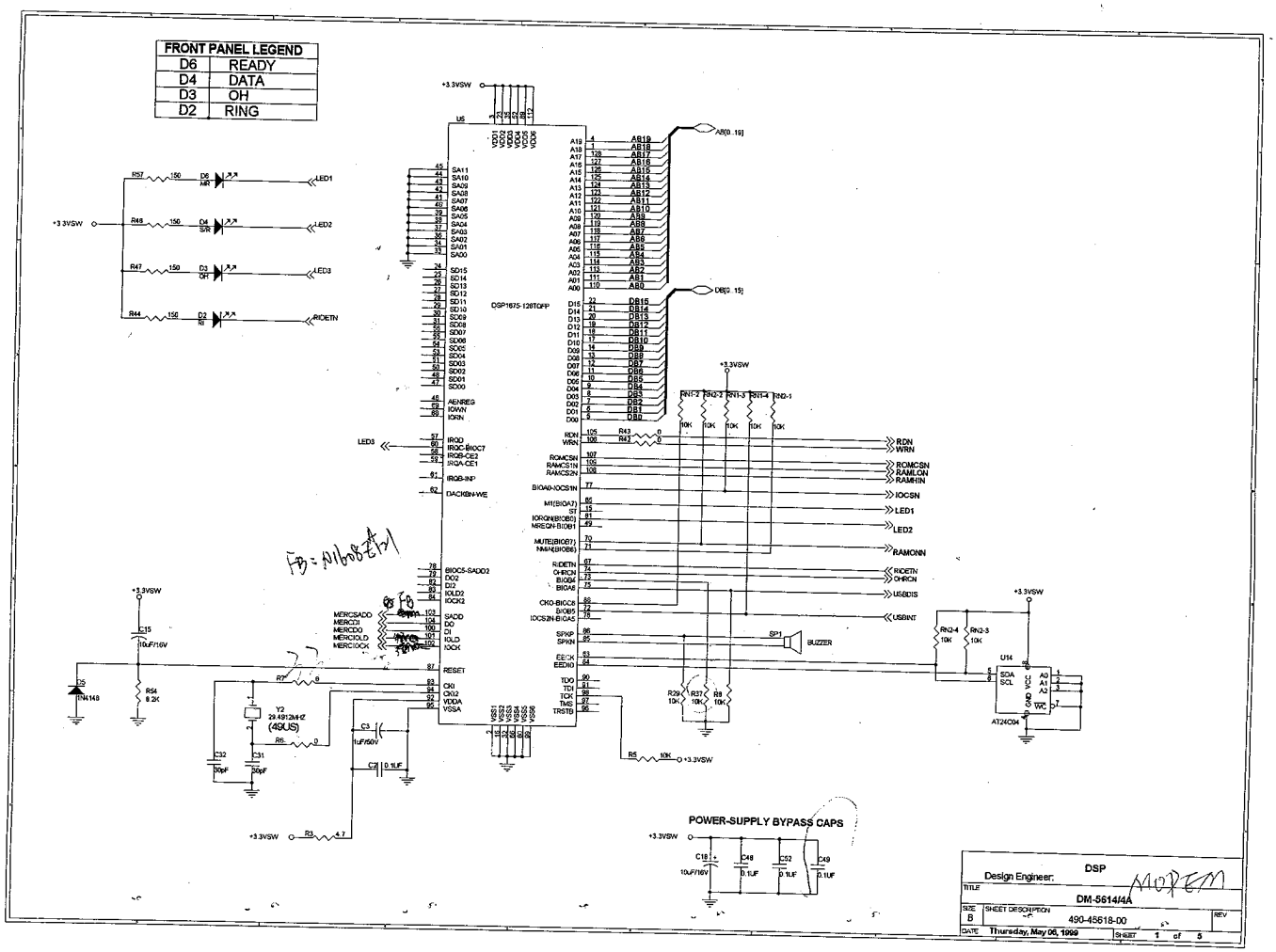
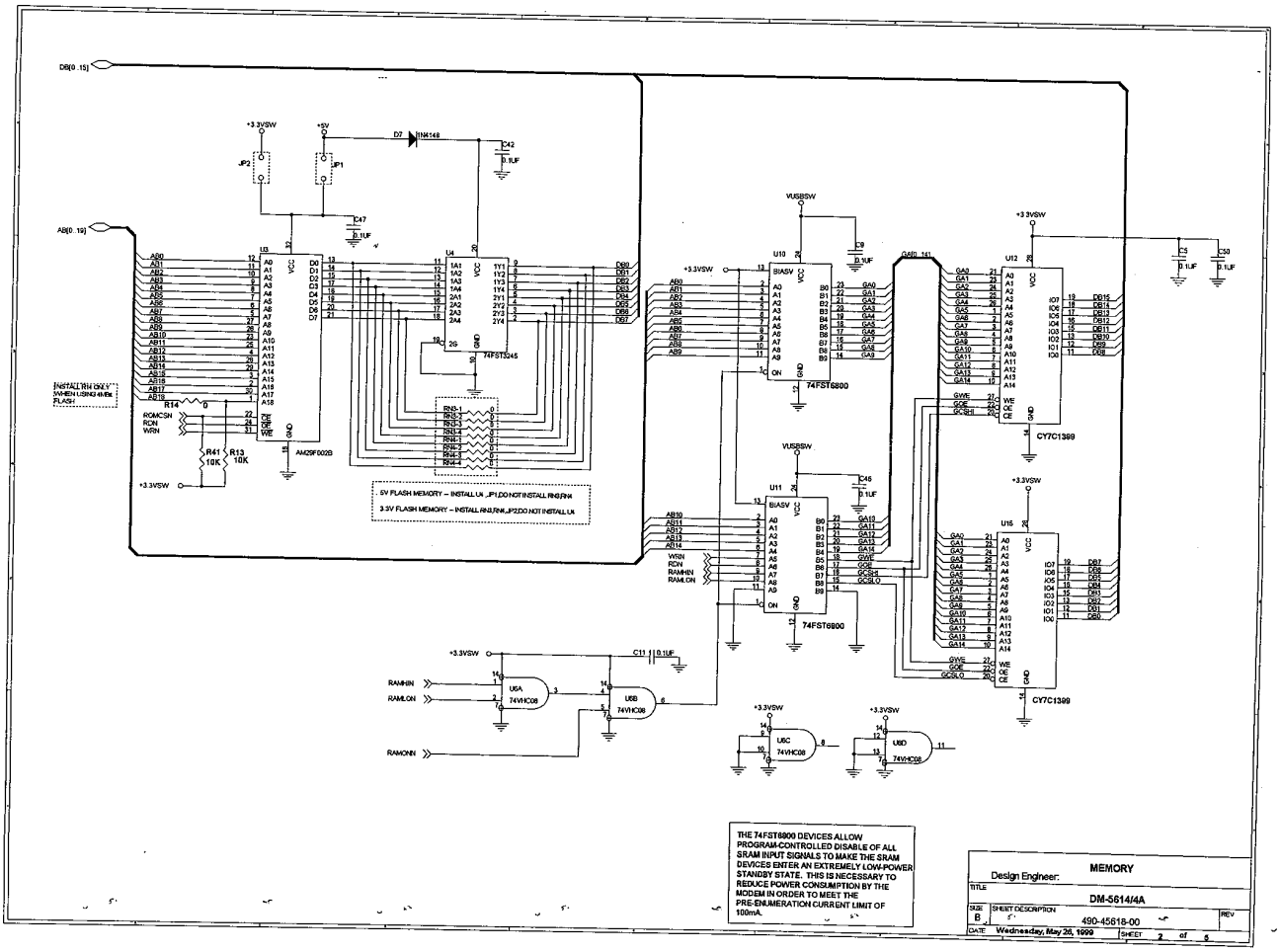
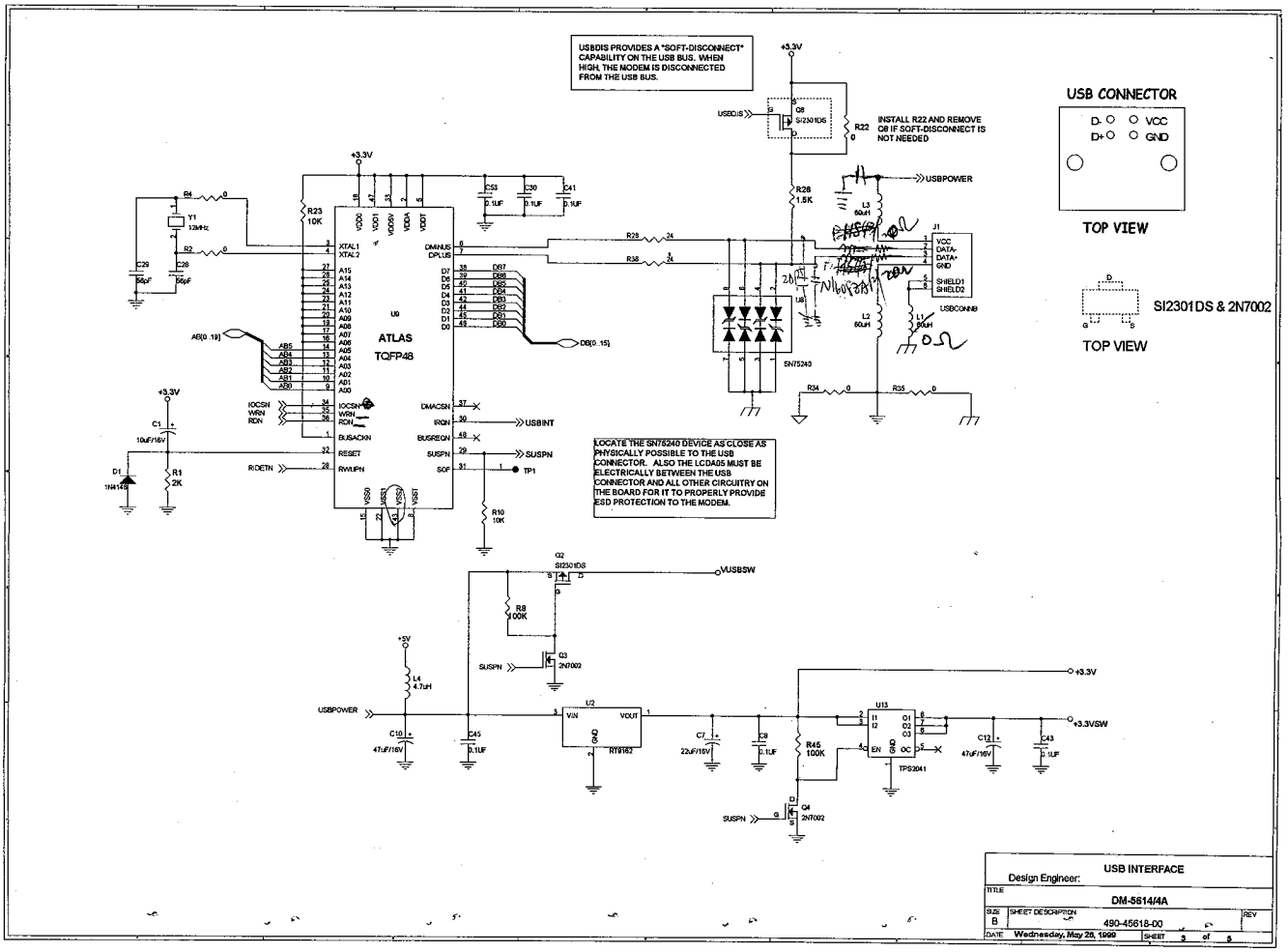
EXHIBIT D

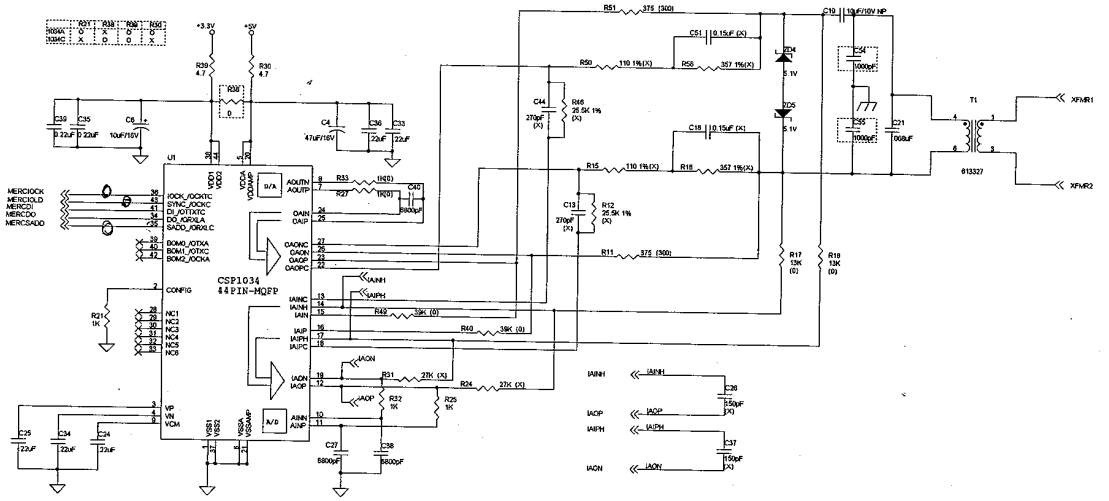
Circuit Diagram


FRONT PANEL LEGEND
D6 READY
D4 DATA
D3 OH
D2 RING
DSP1675-128TQFP
POWER-SUPPLY BYPASS CAPS
DSP
Design Engineer:
DM-5614/4A
490-45618-00
Thursday, May 06, 1999
SHEET 1 of 5

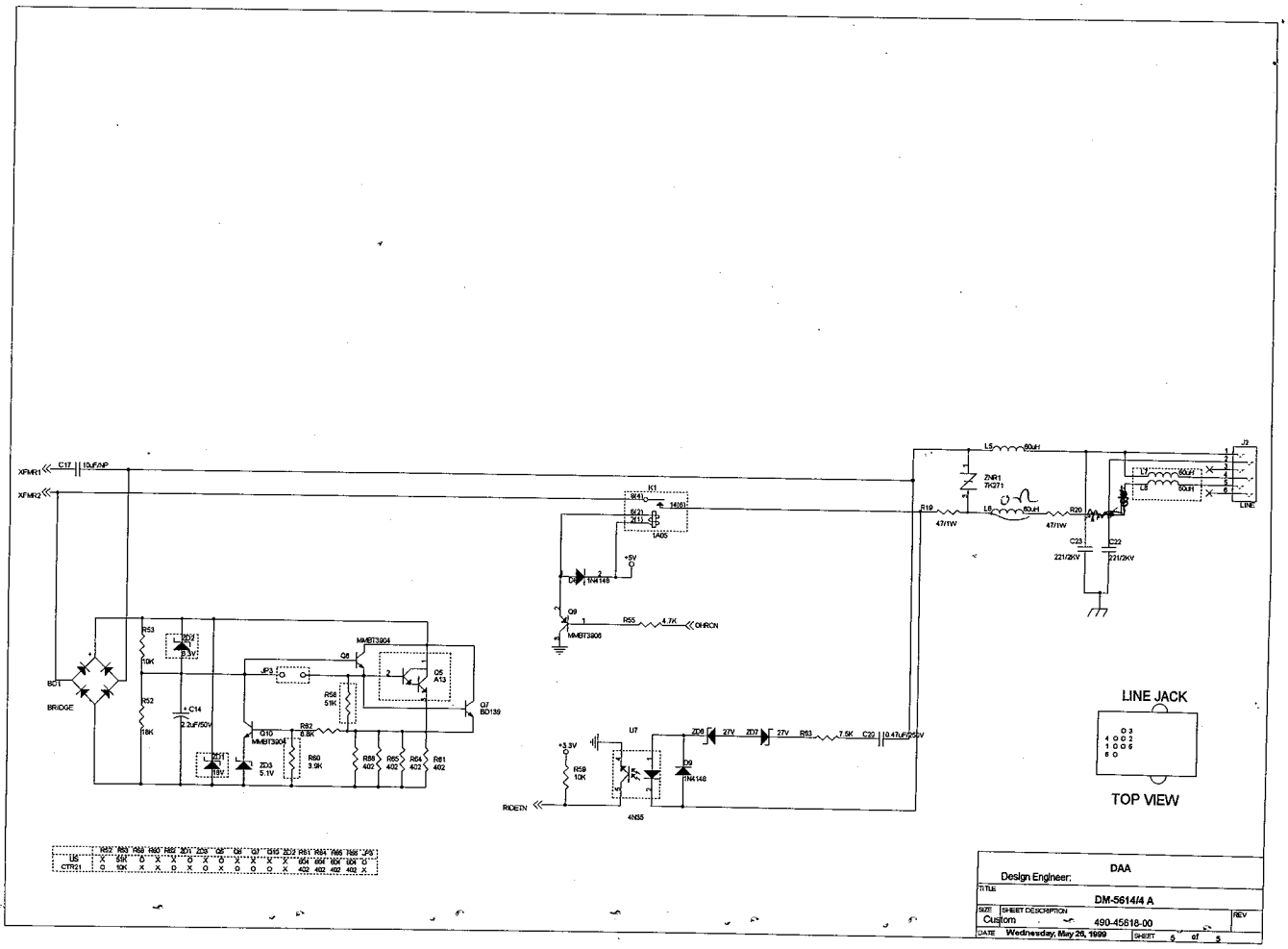

DB[0..15]
AB[0..19]
+3.3VSW
+5V
D7 RN4148
C42 0.1UF
JP2
JP1
C47 0.1UF
U5
AM29F002B
U4
74FST3245
ROMCSN
RDN
WRN
R14 0
R41 10K
R13 10K
5V FLASH MEMORY – INSTALL JP1,DO NOT INSTALL RN3,RN4
3.3V FLASH MEMORY – INSTALL RN3,RN4,JP2,DO NOT INSTALL U5
VUSBSW
U10
74FST6800
U11
74FST6800
U12
CY7C1399
U15
CY7C1399
C39 0.1UF
C45 0.1UF
C25 0.1UF
C30 0.1UF
C11 0.1UF
RAMHIN
RAMLON
RAMONN
U5A
U5B
U5C
U5D
74VHC08
THE 74FST6800 DEVICES ALLOW PROGRAM-CONTROLLED DISABLE OF ALL SRAM INPUT SIGNALS TO MAKE THE SRAM DEVICES ENTER AN EXTREMELY LOW-POWER STANDBY STATE. THIS IS NECESSARY TO REDUCE POWER CONSUMPTION BY THE MODEM IN ORDER TO MEET THE PRE-ENUMERATION CURRENT LIMIT OF 100mA.
Design Engineer:
MEMORY
TITLE
DM-5614/4A
SIZE B
SHEET DESCRIPTION
490-45618-00
REV
DATE Wednesday, May 26, 1999
SHEET 2 of 6


USBDIS PROVIDES A "SOFT-DISCONNECT" CAPABILITY ON THE USB BUS. WHEN HIGH, THE MODEM IS DISCONNECTED FROM THE USB BUS.
INSTALL R22 AND REMOVE Q8 IF SOFT-DISCONNECT IS NOT NEEDED
LOCATE THE SN75240 DEVICE AS CLOSE AS PHYSICALLY POSSIBLE TO THE USB CONNECTOR. ALSO THE LCDA05 MUST BE ELECTRICALLY BETWEEN THE USB CONNECTOR AND ALL OTHER CIRCUITRY ON THE BOARD FOR IT TO PROPERLY PROVIDE ESD PROTECTION TO THE MODEM.
ATLAS
TQFP48
SN75240
TPS2041
RY9182
USB CONNECTOR
D- VCC
D+ GND
TOP VIEW
SI2301DS & 2N7002
TOP VIEW
USB INTERFACE
Design Engineer:
DM-5614/4A
490-45618-00
Wednesday, May 26, 1999

LINE CODEC/ HYBRID



Title	CODEC & HYBRID			
Size	Document Number	490-45618-00		Rev
Date	Wednesday, May 26, 1999	Sheet	4 of 5	


XFMR1
XFMR2
C17
10uF/AP
BD1
BRIDGE
R53
10K
R52
18K
+C14
2.2uF/50V
MMBT3904
Q6
Q5
A13
Q7
BD139
JP3
R58
5.1K
Q10
MMBT3904
R62
6.8K
ZD3
5.1V
R60
3.9K
R59
402
R55
402
R54
402
R61
402
K1
1A05
D8
1N4148
+5V
Q9
MMBT3906
R55
4.7K
OHRON
RIDETN
U7
4N35
+3.3V
R59
10K
D9
1N4148
ZD6
27V
ZD7
27V
R63
7.5K
C20
0.47uF/250V
L5
60uH
L6
60uH
L7
60uH
L8
60uH
R19
47/1W
R20
47/1W
C23
221/2KV
C22
221/2KV
J2
LINE
LINE JACK
TOP VIEW
DAA
Design Engineer:
DM-5614/4 A
Custom
490-45618-00
Wednesday, May 26, 1999
SHEET 5 of 5