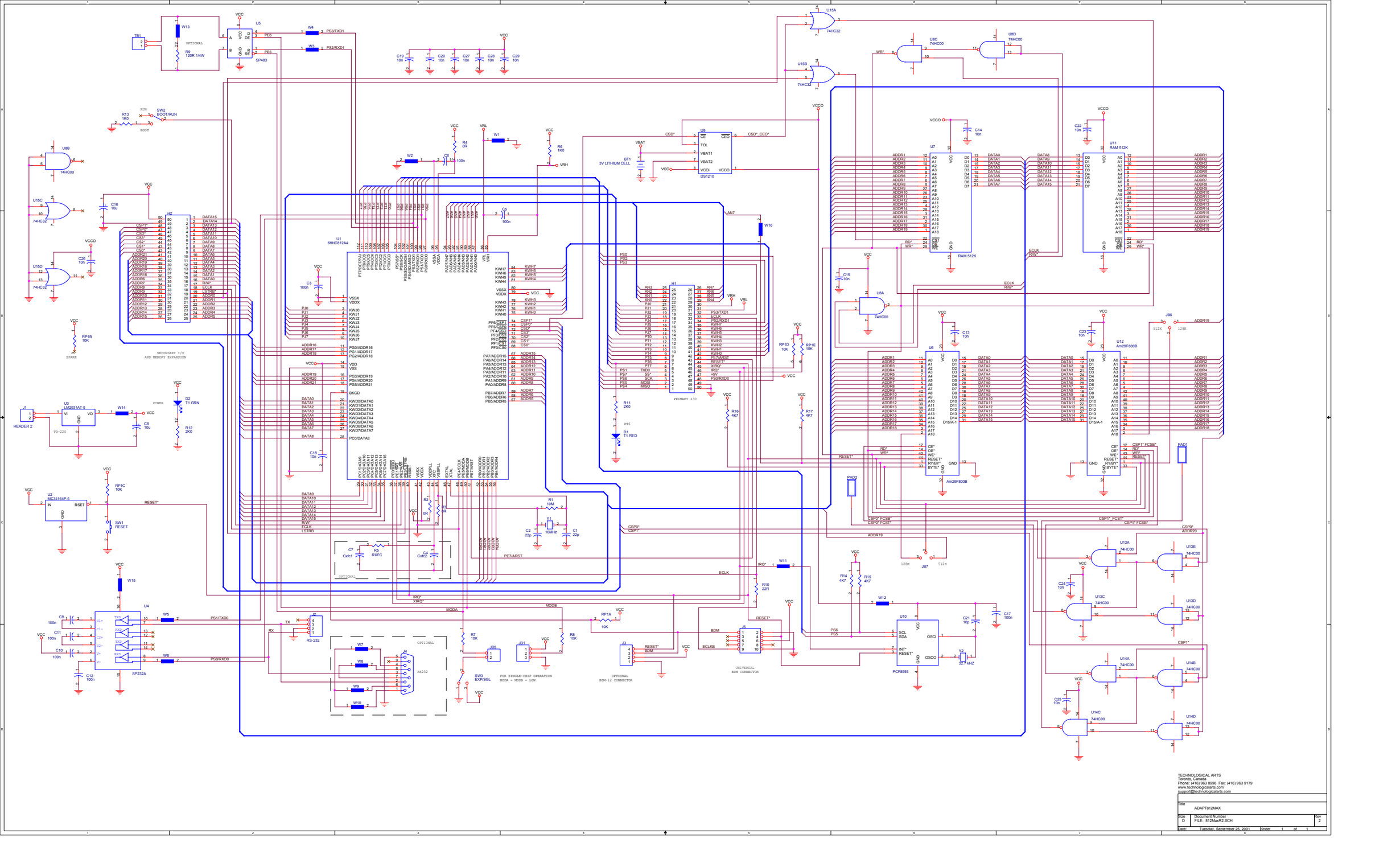
U1
68HC812A4
U7
RAM 512K
U11
RAM 512K
U6
Am29F800B
U12
Am29F800B
U9
DS1210
U10
PCF8593
U4
SP232A
U5
SP483
U2
MC34164P-5
U3
LM2931AT-5
H1
PRIMARY I/O
H2
SECONDARY I/O
AND MEMORY EXPANSION
J2
RS-232
J4
RS232
J5
UNIVERSAL
BDM CONNECTOR
J3
OPTIONAL
BDM-12 CONNECTOR
FOR SINGLE-CHIP OPERATION
MODA = MODB = LOW
BT1
3V LITHIUM CELL
TB1
HEADER 2
SW2
BOOT/RUN
SW1
RESET
SW3
EXP/SGL
Y1
16MHz
Y2
32.768 KHZ
PAD1
PAD2
JB6
JB7
JB1
W13
R9
120R 1/4W
OPTIONAL
VCC
VCCO
VRL
VRH
VBAT
RESET*
ECLK
ECLK
R/W*
ADDR19
CSP0* FCSB*
CSP0* FCS1*
CSP1* FCS1*
CSP1* FCSB*
CSP0*
CSP1*
MODA
MODB
PS1/TXD0
PS0/RXD0
PS6
PS5
BDM
ECLKB
IRQ*
XIRQ*
PE7/ARST
PAD7/ADDR15
PAD6/ADDR14
PAD5/ADDR13
PAD4/ADDR12
PAD3/ADDR11
PAD2/ADDR10
PA1/ADDR9
PA0/ADDR8
PB7/ADDR7
PB6/ADDR6
PB5/ADDR5
PB4/ADDR4
PS2/ADDR2
PS3/ADDR3
PS4/ADDR4
PS5/ADDR5
PS6/ADDR6
PS7/ADDR7
PE0/ADDR0
PE1/ADDR1
PE2/ADDR2
PE3/ADDR3
PE4/ECLK
PE5/MODA
PE6/MODB
PE7/ARST
PS0/RXD0
PS1/TXD0
PS2/RXD1
PS3/TXD1
PS4/MISO
PS5/MOSI
PS6/SCK
PS7/SS*
PT6
PT7
PAD7
PAD6
PAD5
PAD4
PAD3
PAD2
PAD1
PAD0
PB7
PB6
PB5
PB4
PB3
PB2
PB1
PB0
PE0
PE1
PE2
PE3
PE4
PE5
PE6
PE7
PS0
PS1
PS2
PS3
PS4
PS5
PS6
PS7
PT6
PT7
PT0
PT1
PT2
PT3
PT4
PT5
PJ0
PJ1
PJ2
PJ3
PJ4
PJ5
PJ6
PJ7
PP0
PP1
PP2
PP3
PP4
PP5
PP6
PP7
PA7
PA6
PA5
PA4
PA3
PA2
PA1
PA