```
U1 MC68HC912B32
U2 EPM7128ALC84
U3 52256CD-70
U4 52256CD-LP
U5 MAX522
U6 LM317
R1 240
R2 430
R3 10K
C1 10UF
C2 2.2UF
C3 0.1UF
C4 0.1UF
C5 0.1UF
C7 0.1UF
C8 0.1UF
C9 0.1UF
J1 CON22
J2 CON4
JP1 HEADER 1X2
------------------------------------------------------------
VCC
C2-1 U5-3 U5-7 R3-2 U6-2 C5-2 U3-28 U4-28 C9-2

GND
C2-2 U5-4 C7-1 C8-1 J2-2 J2-4 C3-1 JP1-1 C4-1
U2-42 U2-82 U2-7 U2-19 U2-32 U2-47 U2-59 U2-72 R2-2
C1-2 J1-17 J1-18 C5-1 U3-14 U4-14 C9-1

3.5V
C3-2 U2-43 C4-2 U2-3 U6-3 C1-1 R1-2 U2-13 U2-66 U2-78
U2-53 U2-38 U2-26

LM317 ADJ
U6-1 R1-1 R2-1
------------------------------------------------------------
Multiplexed Address and Data
AD0
U1-18(PB0) U2-27 U3-11

AD1
U1-19(PB1) U2-21 U3-12

AD2
U1-20(PB2) U2-12 U3-13

AD3
U1-21(PB3) U2-8 U3-15

AD4
U1-22(PB4) U2-11 U3-16

AD5
U1-23(PB5) U2-22 U3-17

AD6
U1-24(PB6) U2-6 U3-18

AD7
U1-25(PB7) U2-10 U3-19

AD8
U1-39(PA0) U2-63 U4-11

AD9
U1-40(PA1) U2-64 U4-12

AD10
U1-41(PA2) U2-54 U4-13
```



```
AD11
U1-42(PA3) U2-56 U4-15

AD12
U1-43(PA4) U2-57 U4-16

AD13
U1-44(PA5) U2-46 U4-17

AD14
U1-45(PA6) U2-48 U4-18

AD15
U1-46(PA7) U2-44 U4-19
------------------------------------------------------------
Demultiplexed Address
A1
U2-51 U3-10 U4-10

A2
U2-33 U3-9 U4-9

A3
U2-4 U3-8 U4-8

A4
U2-52 U3-7 U4-7

A5
U2-76 U3-6 U4-6

A6
U2-73 U3-5 U4-5

A7
U2-55 U3-4 U4-4

A8
U2-17 U3-3 U4-3

A9
U2-77 U3-25 U4-25

A10
U2-18 U3-24 U4-24

A11
U2-75 U3-21 U4-21

A12
U2-71 U3-23 U4-23

A13
U2-41 U3-2 U4-2

A14
U2-70 U3-26 U4-26

A15
U2-74 U3-1 U4-1
```

```
Control lines to Altera
IRQ
U1-37(IRQ) U2-49

R/W
U1-36(R/W) U2-2

LSTRB
U1-35(LSTRB) U2-1

E
U1-29(E) U2-83

RESET
U1-32(RESET) U2-20

EXP_EN
R3-1 U2-84 JP1-2
------------------------------------------------------------
Control lines to memory
CS_MEM_ODD
U2-79 U3-20

WE
U2-39 U3-27 U4-27

OE
U2-36 U3-22 U4-22

CS_MEM_EVEN
U2-37 U4-20
------------------------------------------------------------
D/A Converter
SDATA
U1-66 U5-8

SCLK
U1-67 U5-2

CS_D/A
U1-68 U5-1

OUTA
U5-5 C8-2 J2-1

OUTB
U5-6 C7-2 J2-3
```



```
Expansion Ports
CEA1
U2-34 J1-21

CEA0
U2-30 J1-19

EA0
U2-16 J1-1

EA1
U2-29 J1-3

EA2
U2-14 J1-5

EA3
U2-15 J1-7

EA4
U2-69 J1-9

EA5
U2-67 J1-11

EA6
U2-65 J1-13

EA7
U2-68 J1-15

CEB1
U2-31 J1-22

CEB0
U2-28 J1-20

EB0
U2-25 J1-2

EB1
U2-24 J1-4

EB2
U2-5 J1-6

EB3
U2-9 J1-8

EB4
U2-62 J1-10

EB5
U2-60 J1-12

EB6
U2-61 J1-14

EB7
U2-58 J1-16
```