259-6425 RS (PJ-002AH)
SK3
DC005-2.5MM
R17 2.2K
LED1
3mm
C12
1000uF
C38
1000uF
Replace L1 with wire link
L1
1Mh
R9
1K
R7
8K2
C4
22uF
VIDEO
Q1
BC547B
R8
5K3
R10
270R
C3
22uF
R11
3K9
C2
22uF
Q2
BC547B
R6
82R
R12
470R
SK1
UM1233 E36
SK4
rca connector
189-3957 rca socket
VID_OUT
SK2
7_PIN_DIN_PCB
SCREEN
SCREEN
CAS_OUT
CAS_IN
AV19824 CPC
2989968 Farnell
C22 100nF
C24 100nF
C25 100nF
C26 100nF
C27 100nF
C28 100nF
C14 100nF
C15 100nF
C16 100nF
C17 100nF
C13 100nF
C18 100nF
C19 100nF
C20 100nF
C21 100nF
C22 100nF
C32 100nF
C35 100nF
C36 100nF
C37 100nF
C39 100nF
C40 10uF
PL5
HEADER_26_PIN
R1 4K7
R2 4K7
R39 4K7
R45 4K7
R41 4K7
NWDS
NWE
R3 470R
IC27 74LS244
IC28 74LS244
VDG
ATOM_EXPANSION_64PIN
PL67
IC1 6522
IC29 74HCT245
IC13 74HCT573
NRDS
1C29_19
RD0
RD1
RD2
RD3
RD4
RD5
RD6
RD7
VD0
VD1
VD2
VD3
VD4
VD5
VD6
VD7
LOAD
LK2
IRQ
LK14
IC14 74LS08
IC29_19
VDG
LOAD
LK13
R23 10K
LK11
RAMNOE
74LS139
IC15 74LS14
R22 1K
C33 100pF
NWE
R24 270R
C34 100pF
LK12
RAMNWE
NWE
RD7
RD6
RD5
RD4
RD3
RD2
RD1
RD0
IC32 62256
RAMNWE
RAMNWE
IC2 74LS244
IC3 74LS244
EX_A7
EX_A8
EX_A14
EX_A15
EX_A6
EX_A5
EX_A4
EX_A3
EX_A13
EX_A0
EX_A1
EX_A2
EX_A12
EX_A11
EX_A10
EX_A9
O2
X1
3.58MHz
R4 330R
R5 330R
C1 100nf
IC11 74LS00
RAM (/0000-03FF, 2000-2FFF)
Must be 74LS00 for video clock to run
VIDCLK
BLK_0400
BLK_0400_E000
/00XXTO03XX
/EXXX
RAM
/EURO_EXPAND_DOS
EURO
IC4 74HC245
EX_D0
EX_D1
EX_D2
EX_D3
EX_D4
EX_D5
EX_D6
EX_D7
LK10
MEM EN FOR EXP BUS
0400-1FFF
OR
0400-1FFF & E000-EFFF
A15 8000
A14 4000
A13 2000
A12 1000
A11 0800
A10 0400
A9 0200
A8 0100
UC7.4 74LS02
UC7.3 74LS02
UC7.1 74LS02
UC7.2 74LS02
IC8.1 74LS00
IC8.4 74LS00
/00XXTO03XX
/0XXX
/BLK0
7402
A B Q
0 0 1
0 1 0
1 0 0
1 1 0
7400
A B Q
0 0 1
0 1 1
1 0 1
1 1 0
IC49 74LS139
/BXXX
/AXXX
/8XXX
/9XXX
/AXXX
/BXXX
/CXXX
/DXXX
/EXXX
/FXXX
IC8.3 74LS00
/8_9XXX
IC48.2
IC23 74LS138
IC26.4 74HCU04
IC26.3 74HCU04
IC26.5 74HCU04
IC48.3
RAM 0 - 7FFF
OR
MEM HOLE 0400-1FFF
LK6
HDR-M-2.54_1x3
RAM
A000 RAM EN
LK9
A000 ROM EN
LK8
IC21 74LS30
IC20 27256
W27C512
E000 EN
ROM LO / HI
LK7
IC45.2 74LS04
IC45.5
IC45.6 74LS04
IC48.1 74LS00
IC48.4 74LS00
IC45.3 74LS04
IC45.4 74LS04
IC44.1 74LS393
IC47 74LS163
IC46.1 LM348
IC46.2 LM348
R36 470k
R37 10k
R33 47k
R34 47k
R31 4k7
R32 4k7
C7 47nF
C8 22uF
C9 47nF
CAS_OUT
CAS_IN
IC44.2 74LS393
LK4
1 Mhz
2 Mhz
OIN
LK5
4 Mhz
IC31 6847
VIDCLK
VIDEO
VID_INV
VID_CSS
VID_OA
VID_OB
VID_CHB
VID_HS
VID_FS
PL4
HDR-M-2.54_2x5
VID_CSS
VID_OA
VID_FS
VID_OB
VID_OUT
VID_INV
VID_CHB
VID_HS
IC25 8255
IC45.3 74LS04
R28 4K7
C5 22uF
SPK1
VID_CSS
IC45.6 74LS04
IC48.1 74LS00
IC48.4 74LS00
R29 4K7
R30 1k
C6 10nF
CAS_OUT
IC44.1 74LS393
IC47 74LS163
IC46.1 LM348
IC46.2 LM348
IC45.4 74LS04
CAS_IN
IC44.2 74LS393
LK4
1 Mhz
2 Mhz
OIN
LK5
4 Mhz
IC26.6 74HCU04
RST
/RST
IC26.1 74LS04
IC26.2 74LS04
R27 1M
R26 4K7
X2 4Mhz
C10 33pF
C11 33pF
Must be 74HCU04 for CPU clock to run
PL8
HDR-M-2.54_2x10
/B4XX
/NMI
/IRQ
RDY
SO
LK3
HDR-M-2.54_1x2
/IRQ
KB1
CONN_2x15
259-6425 Farnell
IC33 555
R20 1M
R19 1M
C31 100nF
C30 100nF
C29 100nF
BRK
RST
R13 4K7
R14 4K7
R15 4K7
R16 4K7
/NMI
/IRQ
RDY
SO
B4 NWDS
B5 NRDS
B31 /BLK0
A32 /B4XX
B30 R/W
B6 /RST
A29 /NMI
A28 /IRQ
A30 SYNC
A25 RDY
A26 SO
A2 /B4XX
TITLE: Acorn Atom PCB iss 3.81
REV: 1.0
Company: hackjunk.com
Sheet: 1/1
Date: 2023-03-31
Drawn By: andy2468
嘉立创EDA