



Used: C1-3, D0-9, J1-5, R1-19, S0-11, U1-10.
 R7-R19 can be discrete, SIP, or DIP package.
 Install EITHER U2a-U3a OR U2b-U3b.
 IC power supply pins not shown.

U2a pinouts: 23 26 27 JUMPERs at J2
 62256 32K RAM A14 A11 A13 /WE 1-3 4 5 5-7 9-10
 6264 8K RAM A11 VCC /WE 4-6 5-7 8-10
 6116 2K RAM VCC /WE VCC A14 5-6 8-10
 27328 16K ROM VCC A11 A13 VCC 1-3 4 5-7 9-10
 2764 4K ROM VCC A11 VCC 1-3 3-4 5-7
 2732 4K ROM 2732 VCC 5-7 8-10
 2716 2K ROM VCC VCC 3-5 8-10

PORT INSTALL JUMPERS AT J1
 1 1-3 3-5 4-6 7-9 8-10
 2 1-2 3-4 5-6 7-9 8-10
 3 1-2 3-7 5-6 7-9 8-10
 5 1-2 3-5 4-7 5-9 10
 6 1-3 2-4 5-6 5-7 9-10
 7 1-2 1-3 5-6 5-7 9-10

U7c pinouts: 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10
 4023 pinouts: 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10

U8 pinouts: 1 2 3 4 5 6 7 8 9 10
 4503 1 2 3 4 5 6 7 8 9 10
 4503 1 2 3 4 5 6 7 8 9 10

U9 pinouts: 1 2 3 4 5 6 7 8 9 10
 4503 1 2 3 4 5 6 7 8 9 10

U7a pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U7b pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U6a pinouts: 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10

U6b pinouts: 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10

U4 pinouts: 1 2 3 4 5 6 7 8 9 10
 4042 1 2 3 4 5 6 7 8 9 10

U5 pinouts: 1 2 3 4 5 6 7 8 9 10
 4042 1 2 3 4 5 6 7 8 9 10

U3a pinouts: 1 2 3 4 5 6 7 8 9 10
 74HC373 1 2 3 4 5 6 7 8 9 10

U2a pinouts: 1 2 3 4 5 6 7 8 9 10
 62256 1 2 3 4 5 6 7 8 9 10

U3b pinouts: 1 2 3 4 5 6 7 8 9 10
 256x4 RAM 1 2 3 4 5 6 7 8 9 10

U4 pinouts: 1 2 3 4 5 6 7 8 9 10
 4042 1 2 3 4 5 6 7 8 9 10

U5 pinouts: 1 2 3 4 5 6 7 8 9 10
 4042 1 2 3 4 5 6 7 8 9 10

U6a pinouts: 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10

U6b pinouts: 1 2 3 4 5 6 7 8 9 10
 4023 1 2 3 4 5 6 7 8 9 10

U7a pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U7b pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U7c pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U8 pinouts: 1 2 3 4 5 6 7 8 9 10
 4503 1 2 3 4 5 6 7 8 9 10

U9 pinouts: 1 2 3 4 5 6 7 8 9 10
 4503 1 2 3 4 5 6 7 8 9 10

U10a pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U10b pinouts: 1 2 3 4 5 6 7 8 9 10
 4013 1 2 3 4 5 6 7 8 9 10

U11 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U12 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U13 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U14 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U15 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U16 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U17 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U18 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U19 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U20 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U21 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U22 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U23 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U24 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U25 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U26 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U27 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U28 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U29 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U30 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U31 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U32 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U33 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U34 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U35 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U36 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U37 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U38 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U39 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U40 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U41 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U42 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U43 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U44 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U45 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U46 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U47 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U48 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U49 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U50 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U51 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U52 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U53 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U54 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U55 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U56 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U57 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U58 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U59 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U60 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U61 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U62 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U63 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U64 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U65 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U66 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U67 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U68 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U69 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U70 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U71 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U72 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U73 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U74 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U75 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U76 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U77 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U78 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U79 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U80 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U81 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U82 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U83 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U84 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U85 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U86 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U87 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U88 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U89 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U90 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U91 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U92 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U93 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U94 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U95 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U96 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U97 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U98 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U99 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10

U100 pinouts: 1 2 3 4 5 6 7 8 9 10
 4001 1 2 3 4 5 6 7 8 9 10