Matrixv3.2

File: Matrixv3.2.klcad_sch

VCC

C1
0.1µF

PIN1

U1
ATtiny2313-20P

VCC 20

1 PA2/RESET
5 PA0/XTAL1
4 PA1/XTAL2

PB0 12
PB1 13
PB2 14
PB3 15 SHIFTLOCK
PB4 16 4080TOGGLE
PB5 17 CAPSLOCTOGGLE
PB6 18
PB7 19

PD0 2 LOCKOUT
PD1 3 PIN24
PD2 6 PIN25
PD3 7 CAPSLED
PD4 8 4080LED
PD5 9 SHIFTLED
PD6 11

GND 10

PIN1   GND

4080LED

CAPSLED

SHIFTLED

GND

VCC

D3   D4   D1   D2
SHIFT 4080 CAPS Power

R6   R7   R3   R4
470Ω 470Ω 470Ω 470Ω

VCC
R2
1KΩ
SHIFTLOCK

VCC
R1
1KΩ
4080TOGGLE

VCC
R5
1KΩ
CAPSLOCTOGGLE

VCC

VCC 14

U3E
74LS125

GND 7

PIN1   GND

J1
DB25_Male

PIN13 13
PIN25 25
PIN12 12
PIN24 24
PIN11 11
PIN23 23
PIN10 10
PIN22 22
PIN9 9
PIN21 21
PIN8 8
PIN20 20
PIN7 7
PIN19 19
PIN6 6
PIN18 18
PIN5 5
PIN17 17
VCC 4
PIN16 16
PIN3 3
PIN15 15
2
PIN14 14
PIN1 1

U3A
74LS125
LOCKOUT 2   3 PIN9

1
PIN19

U3D   U3C   U3B
74LS125 74LS125 74LS125
12 11   9   8   5   6

PIN13 PIN19 PIN18 PIN17 PIN16 PIN15 PIN14 PIN20 PIN21 PIN22 PIN23

| K37 | K27 | K29 | K31 | K33 | K35 | K13 | K25 | K9 | K4 | K99 |
| INSDEL | 3 | 5 | 7 | 9 | + | POUND | 1 | HELP | ESC | ALT |

PIN12

PIN11

| K74 | K47 | K49 | K51 | K53 | K55 | K57 | K24 |
| RETURN | W | R | Y | I | P | ASTERISK | BACKARROW |

| K104 | K63 | K65 | K67 | K69 | K71 | K73 | K45 |
| CRSRLEFTRIGHT | A | D | G | J | L | : | CONTROL |

PIN10

PIN5

| K8 | K28 | K30 | K32 | K34 | K36 | K21 | K26 | K22 | K10 | K79 |
| F7 | 4 | 6 | 8 | 0 | – | CLRHOME | 2 | TAB | LINEFEED | KEYPAD_UP |

| K5 | K81 | K83 | K85 | K87 | K89 | K91 | K100 | | | K95 |
| F1 | Z | C | B | M | . | RSHIFT | SPACE | | | KEYPAD_DOWN |

PIN8

PIN7

| K6 | K64 | K66 | K68 | K70 | K72 | K42 | K97 | | | K94 |
| F3 | S | F | H | K | : | = | COMMODORE | | | KEYPAD_LEFT |

| K7 | K48 | K50 | K52 | K54 | K56 | K23 | K46 | | | K96 |
| F5 | E | T | U | O | AT | UPARROW | Q | | | KEYPAD_RIGHT |

PIN6

PIN9

| K103 | K80 | K82 | K84 | K86 | K88 | K90 | K62 | | | K12 |
| CRSRUPDOWN | SHIFTL | X | V | N | , | / | RUNSTOP | | | NOSCROLL |

| K16 |
| DEAD |

| K15 | K19 |
| DEAD | DEAD |

| K43 | K44 | K102 |
| DEAD | DEAD | DEAD |

SHIFTLOCK | K101 | PIN1
           | SHIFTLOCK |

4080TOGGLE | K11 |
           | 4080 |

CAPSLOCTOGGLE | K98 |
              | CAPSLOCK |

PIN3 | K58 |
     | RESTORE |