

# List of items need for S100 80286 Board

|      |          |            |
|------|----------|------------|
| BAR1 | DOT-BAR2 | ; 20dip300 |
| C1   | 33 uF    | ; C1V5     |
| C3   | 0.1 uF   | ; C1V5     |
| C7   | 0.1 uF   | ; C2       |
| C8   | 0.1 uF   | ; C2       |
| C9   | 0.1 uF   | ; C2       |
| C10  | 0.1 uF   | ; C2       |
| C11  | 0.1 uF   | ; C2       |
| C12  | 0.1 uF   | ; C2       |
| C13  | 0.1 uF   | ; C2       |
| C14  | 0.1 uF   | ; C2       |
| C15  | 0.1 uF   | ; C2       |
| C16  | 0.1 uF   | ; C2       |
| C17  | 0.1 uF   | ; C2       |
| C18  | 0.1 uF   | ; C2       |
| C19  | 0.1 uF   | ; C2       |
| C20  | 0.1 uF   | ; C2       |
| C21  | 0.1 uF   | ; C2       |
| C22  | 0.1 uF   | ; C2       |
| C23  | 0.1 uF   | ; C2       |
| C24  | 0.1 uF   | ; C2       |
| C25  | 0.1 uF   | ; C2       |
| C26  | 0.1 uF   | ; C2       |
| C27  | 0.1 uF   | ; C2       |
| C28  | 0.1 uF   | ; C2       |
| C29  | 0.1 uF   | ; C2       |
| C30  | 0.1 uF   | ; C2       |
| C36  | 0.1 uF   | ; C2       |
| C37  | 0.1 uF   | ; C2       |
| C38  | 0.1 uF   | ; C2       |
| C39  | 0.1 uF   | ; C2       |
| C40  | 0.1 uF   | ; C2       |
| C41  | 0.1 uF   | ; C2       |
| C46  | 0.1 uF   | ; C2       |
| C47  | 0.1 uF   | ; C2       |
| C48  | 0.1 uF   | ; C2       |
| C49  | 0.1 uF   | ; C2       |
| C50  | 0.1 uF   | ; C2       |
| C51  | 0.1 uF   | ; C2       |
| C52  | 0.1 uF   | ; C2       |
| C53  | 0.1 uF   | ; C2       |
| C54  | 0.1 uF   | ; C2       |
| C57  | 0.1 uF   | ; C2       |
| C58  | 0.1 uF   | ; C2       |
| C59  | 0.1 uF   | ; C2       |
| C60  | 0.1 uF   | ; C2       |
| C61  | 0.1 uF   | ; C2       |
| C62  | 0.1 uF   | ; C2       |
| C63  | 0.1 uF   | ; C2       |
| C64  | 0.1 uF   | ; C2       |
| C65  | 22 uF    | ; C1V5     |
| C66  | 47 uF    | ; C1V5     |
| C67  | 47 pF    | ; C2       |
| C68  | 47 pF    | ; C2       |
| C69  | 47 pF    | ; C2       |
| C70  | 0.05 uF  | ; C2       |
| C71  | 15 pF    | ; C1       |
| C72  | 25 pF    | ; C1       |
| C73  | 0.1 uF   | ; C2       |
| C74  | 0.1 uF   | ; C2       |
| D2   | LED      | ; LEDV     |
| D3   | LED      | ; LEDV     |

|      |           |                    |
|------|-----------|--------------------|
| D4   | 1N4148    | ; D3               |
| D5   | LED       | ; LEDV             |
| D6   | LED       | ; LEDV             |
| D7   | LED       | ; LEDV             |
| JP1  | JUMPER    | ; SIL-2            |
| JP2  | JUMPER    | ; SIL-2            |
| JP3  | JUMPER    | ; SIL-2            |
| JP4  | JUMPER    | ; SIL-2            |
| JP5  | JUMPER    | ; SIL-2            |
| JP6  | JUMPER    | ; SIL-2            |
| JP7  | JUMPER    | ; SIL-2            |
| JP8  | JUMPER    | ; SIL-2            |
| JP9  | JUMPER    | ; SIL-2            |
| JP11 | JUMPER    | ; SIL-2            |
| JP12 | JUMPER    | ; SIL-2            |
| JP13 | JUMPER    | ; SIL-2            |
| JP14 | JUMPER    | ; SIL-2            |
| JP18 | JUMPER    | ; SIL-2            |
| JP19 | JUMPER    | ; SIL-2            |
| JP20 | JUMPER    | ; SIL-2            |
| K1   | CONN_3    | ; SIL-3            |
| K3   | CONN_3    | ; SIL-3            |
| K5   | CONN_3    | ; SIL-3            |
| K6   | CONN_3    | ; SIL-3            |
| K7   | CONN_3    | ; SIL-3            |
| K9   | CONN_4    | ; SIL-4            |
| K10  | CONN_4    | ; SIL-4            |
| K11  | CONN_3    | ; SIL-3            |
| K12  | CONN_3    | ; SIL-3            |
| K13  | CONN_3    | ; SIL-3            |
| P1   | S100_MALE | ; S100_MALE        |
| P34  | CONN_1    | ; 1pin             |
| P35  | CONN_1    | ; 1pin             |
| P36  | CONN_5X2  | ; PIN_ARRAY_5x2    |
| P55  | 2.000 MHz | ; 14dip Oscillator |
| P56  | CONN_13X2 | ; pin_array_13x2   |
| P57  | CONN_2X2  | ; PIN_ARRAY_2X2    |
| P61  | 12 MHz    | ; 14dip Oscillator |
| P62  | CONN_8    | ; SIL-8            |
| P63  | CONN_8    | ; SIL-8            |
| P64  | CONN_8    | ; SIL-8            |
| P65  | CONN_8X2  | ; pin_array_8x2    |
| P66  | CONN_8X2  | ; pin_array_8x2    |
| P67  | CONN_2X2  | ; PIN_ARRAY_2X2    |
| P68  | CONN_4    | ; SIL-4            |
| P69  | CONN_4    | ; SIL-4            |
| P70  | CONN_4    | ; SIL-4            |
| P71  | CONN_4X2  | ; pin_array_4x2    |
| Q1   | 2N3904    | ; TO92-INVERT      |
| R1   | 1000      | ; R3               |
| R5   | 470       | ; R3               |
| R6   | 470       | ; R3               |
| R7   | 4700      | ; R3               |
| R8   | 4700      | ; R3               |
| R9   | 10        | ; R3               |
| R10  | 10        | ; R3               |
| R11  | 10        | ; R3               |
| R12  | 10        | ; R3               |
| R13  | 1000      | ; R3               |
| R14  | 470       | ; R3               |
| R15  | 1000      | ; R3               |
| R16  | 4700      | ; R3               |
| R17  | 4700      | ; R3               |
| R18  | 150       | ; R3               |
| R19  | 4700      | ; R3               |

|     |          |                                      |
|-----|----------|--------------------------------------|
| R20 | 150      | ; R3                                 |
| R21 | 4700     | ; R3                                 |
| R22 | 150      | ; R3                                 |
| R23 | 1000     | ; R3                                 |
| R25 | 470      | ; R3                                 |
| R26 | 1000     | ; R3                                 |
| R27 | 1000     | ; R3                                 |
| R28 | 470      | ; R3                                 |
| R31 | 4700     | ; R3                                 |
| R32 | 4700     | ; R3                                 |
| R33 | 910      | ; R3                                 |
| R34 | 2700     | ; R3                                 |
| R35 | 4700     | ; R3                                 |
| R36 | 4700     | ; R3                                 |
| R37 | 4700     | ; R3                                 |
| R38 | 4700     | ; R3                                 |
| R39 | 1000     | ; R3                                 |
| R40 | 1000     | ; R3                                 |
| R41 | 1000     | ; R3                                 |
| R42 | 1000     | ; R3                                 |
| R43 | 1000     | ; R3                                 |
| R44 | 4700     | ; R3                                 |
| RR2 | 1000     | ; r_pack9                            |
| RR3 | 1000     | ; r_pack9                            |
| RR4 | 1000     | ; r_pack9                            |
| SW3 | DIPS_08  | ; SWDIP8                             |
| U48 | LM323K   | ; TO3 (1.5A or better, 3A regulator) |
| U49 | 74LS07N  | ; 14dip300                           |
| U50 | 74F04    | ; 14dip300                           |
| U52 | 74F00    | ; 14dip300                           |
| U53 | 74LS74   | ; 14dip300                           |
| U55 | 74F240   | ; 20dip300                           |
| U56 | 74LS240  | ; 20dip300                           |
| U57 | 74LS74   | ; 14dip300                           |
| U58 | 74F21    | ; 14dip300                           |
| U59 | 74LS08   | ; 14dip300                           |
| U60 | 74F32    | ; 14dip300                           |
| U63 | 74LS04   | ; 14dip300                           |
| U64 | 82284    | ; 18dip300                           |
| U66 | 74LS367  | ; 16dip300                           |
| U67 | 74LS138  | ; 16dip300                           |
| U68 | 82288    | ; 20dip300                           |
| U70 | 80286    | ; PLCC68                             |
| U71 | 74F32    | ; 14dip300                           |
| U72 | 74F27    | ; 14dip300                           |
| U73 | 74LS373  | ; 20dip300                           |
| U74 | 74LS373  | ; 20dip300                           |
| U75 | 74LS373  | ; 20dip300                           |
| U76 | 74LS245  | ; 20dip300                           |
| U77 | 74LS245  | ; 20dip300                           |
| U78 | 74F244   | ; 20dip300                           |
| U79 | 74LS05   | ; 14dip300                           |
| U80 | 74LS682N | ; 20dip300                           |
| U81 | 74LS32   | ; 14dip300                           |
| U82 | 27C512   | ; 28dip600                           |
| U83 | 27C512   | ; 28dip600                           |
| U84 | 74LS373  | ; 20dip300                           |
| U85 | 74LS373  | ; 20dip300                           |
| U86 | 74LS373  | ; 20dip300                           |
| U87 | 74LS164  | ; 14dip300                           |
| U88 | 74LS164  | ; 14dip300                           |
| U89 | 74LS11   | ; 14dip300                           |
| U90 | 74LS30   | ; 14dip300                           |
| U91 | 74LS74   | ; 14dip300                           |
| U92 | 74LS244  | ; 20dip300                           |

|     |         |            |
|-----|---------|------------|
| U94 | 74LS22  | ; 14dip300 |
| U95 | 74LS157 | ; 16dip300 |
| U96 | 74LS86  | ; 14dip300 |
| U97 | 74LS74  | ; 14dip300 |
| U98 | 74LS74  | ; 14dip300 |
| X1  | CRYSTAL | ; 12 Mhz   |