

YOCTO² Parts List

| Part | Value | Description | Qty |
|---|-------|---------------------------|-----|
| R27, R28, R54, R78*, R79*, R80*, R81*, R164*, R165*, R170*, R171*, R178, R179, R208, R209, R236, R237, R264, R265, R292, R293, R328, R329, R379, R380 | 0R | RESISTOR, European symbol | 25 |
| R4, R11, R18, R19, R26, R53*, R107, R122*, R163*, R166*, R169*, R172*, R175, R199, R207, R231, R238, R239, R260, R287, R294, R295, R296, R312, R381, R382, R473, R474, R552, R699 | 1K | RESISTOR, European symbol | 30 |
| R1, R46, R96*, R97*, R99*, R100*, R102*, R103*, R128, R130, R139*, R148*, R149*, R150*, R151*, R198, R305, R316, R336, R348, R349, R350, R356, R156, R161, R167 | 1M | RESISTOR, European symbol | 26 |
| R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R640, R641, R642, R643, R644, R645, R646, R647, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R715 | 1K2 | RESISTOR, American symbol | 41 |
| R224, R280 | 1K5 | RESISTOR, European symbol | 2 |
| R24*, R63*, R65*, R125*, R195, R253, R364, R530, R532, R726, R727 | 2K2 | RESISTOR, European symbol | 11 |
| R147*, R153*, R158, R355 | 2K7 | RESISTOR, European symbol | 4 |
| R218, R247, R276, R321, R194 | 2M2 | RESISTOR, European symbol | 5 |
| R217, R246, R272, R339 | 3K3 | RESISTOR, European symbol | 4 |
| R10*, R14*, R15, R15*, R16*, R17*, R38, R51, R105, R183, R214, R215, R219, R221, R225, R243, R244, R251, R252, R269, R270, R274, R279, R299, R351, R352, R353, R155, R162, R78, R79, R471 | 4K7 | RESISTOR, European symbol | 32 |
| R13, R60*, R281, R315, R354, R714 | 5K6 | RESISTOR, European symbol | 6 |
| R106*, R254, R335, R166, R173 | 6K8 | RESISTOR, European symbol | 5 |
| R116*, R191, R507, R511, R523, R525, R536, R157 | 8K2 | RESISTOR, European symbol | 8 |
| R5*, R6*, R7, R7*, R8*, R16, R27*, R49, R52, R61*, R84*, R89*, R104, R106, R108, R120*, R121*, R130*, R133*, R135*, R153, R181, R182, R200*, R212, R213, R241, R242, R268, R271, R298, R302, R303, R311, R317, R322, R326, R333, R337, R363, R374, R26*, R154, R359, R172, R468, R531, R533, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R632, R633, R634, R635, R636, R637, R638, R639, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R667, R668, R669, R670, R671, R688, R691, R692, R693, R700 | 10K | RESISTOR, European symbol | 93 |
| R55, R56, R501, R502, R504, R505, R513, R514, R516, R517, R519, R520, R528, R529 | 12K | RESISTOR, American symbol | 14 |
| R129*, R184, R185, R216, R245, R273, R338, R342, R366, R371, R508, R510, R522, R526, R535 | 15K | RESISTOR, European symbol | 15 |
| R107*, R109*, R113*, R108* | 18K | RESISTOR, European symbol | 4 |
| R1*, R2*, R3*, R4*, R8, R9*, R11*, R12*, R13*, R17, R22, R29, R53, R55*, R83*, R87*, R103, R104*, R111*, R112*, R117*, R119*, R124*, R126*, R131*, R132, R133, R152, R154*, R156*, R180, R201, R203, R211, R222, R223, R226, R240, R249, R250, R255, R267, R277, R278, R282, R297, R300, R306, R320, R323, R347, R361, R469, R470, R551, R160, R168 | 22K | RESISTOR, European symbol | 57 |
| R205, R332, R360 | 27K | RESISTOR, European symbol | 3 |
| R12, R21, R52*, R62*, R64*, R82*, R88*, R90*, R91*, R92*, R105*, R140*, R141*, R142*, R143*, R144*, R162*, R186, R220, R227, R229, R248, R256, R258, R275, R283, R285, R309, R310, R314, R695 | 33K | RESISTOR, European symbol | 31 |
| R94*, R110*, R114*, R115*, R160*, R372 | 39K | RESISTOR, European symbol | 6 |
| R6, R9, R10, R14, R23, R24, R31, R32, R33, R34, R35, R40, R41, R44, R47, R157*, R158*, R200, R202, R206, R234, R263, R290, R301, R304, R331, R370, R373, R376, R118*, R164, R550, R165, R169 | 47K | RESISTOR, European symbol | 34 |
| R48 | 56K | RESISTOR, European symbol | 1 |
| R146*, R155*, R340, R357, R358 | 68K | RESISTOR, European symbol | 5 |
| R57*, R59*, R127*, R365, R383, R177 | 82K | RESISTOR, European symbol | 6 |
| R2, R3, R20, R28*, R29*, R36, R37, R39, R42, R43, R45*, R123*, R131, R132*, R176, R189, R204, R232, R233, R261, R262, R288, R289, R307, R334, R343, R377, R134*, R378, R728, R730, R58, R59, R159, R163, R174 | 100K | RESISTOR, European symbol | 36 |
| R31*, R33*, R85*, R86*, R95*, R98*, R101*, R124, R136*, R145*, R152*, R696, R697, R193, R188 | 100R | RESISTOR, European symbol | 15 |
| R35*, R37*, R39*, R46*, R48*, R50* | 120K | RESISTOR, European symbol | 6 |
| R44*, R50, R345 | 150K | RESISTOR, European symbol | 3 |
| R694, R712, R716, R717, R718, R719, R192, R171 | 220R | RESISTOR, American symbol | 8 |
| R5, R43*, R318, R319, R324, R344 | 220K | RESISTOR, European symbol | 6 |
| R173*, R325, R362 | 330K | RESISTOR, European symbol | 3 |
| R369, R30, R187, R367 | 330R | RESISTOR, European symbol | 4 |

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| R313 | 390K | RESISTOR, European symbol | 1 |
| R25, R25*, R30*, R32*, R45, R60, R93*, R159*, R161*, R210, R235, R266, R291, R327, R330, R341, R368, R375, R128*, R170, R472 | 470K | RESISTOR, European symbol | 21 |
| R137*, R138* | 470R | RESISTOR, European symbol | 2 |
| R40*, R41* | 560K | RESISTOR, European symbol | 2 |
| R56*, R58* | 560R | RESISTOR, European symbol | 2 |
| R190, R196, R346 | 680R | RESISTOR, European symbol | 3 |
| R42* | 680K | RESISTOR, European symbol | 1 |
| R197, R228, R230, R257, R284, R286, R308, R259 | 820K | RESISTOR, European symbol | 8 |
| | | | |
| D1, D2, D2*, D3*, D4*, D5*, D6*, D7*, D8*, D11*, D12*, D13*, D14*, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D98, D193, D194, D195, D52, D53 | 1N4148 | DIODE | 37 |
| D80, D81, D82, D83, D84, D85 | 1N34 | GERMANIUM DIODE | 6 |
| D94, D95, D96, D97, D109, D110, D111 | 1N4004 | DIODE | 7 |
| | | | |
| D101 | 1N5819-B | 1.0A SCHOTTKY BARRIER RECTIFIER | 1 |
| LED1, LED2, LED3, LED4 | | 3MM RED LED | 4 |
| | | | |
| DIN_SYNC, IN, OUT, THRU | | DIN CONNECTOR | 4 |
| | | | |
| BASSDRUM, COWBELL, CYMBAL, HANCLAP, LEFT, LOWTOM, MID/HITOM, OH/CH, PC-2, RIGHT/MONO, RIMSHOT, SNAREDRUM, TRIG1 | JACK_TRS NRJ6HF | Neutrik | 13 |
| TEST_MODE | | JUMPER | 1 |
| J5, J8 | | KK 156 HEADER | 2 |
| J1, J3, J4, J11, J12, J13 | 22-27-2061-04 | CONNECTOR | 6 |
| J6, J14 | 22-27-2061-06 | CONNECTOR | 2 |
| J2, J10 | 22-27-2061-08 | CONNECTOR | 2 |
| J16 | | DC POWER JACK | 1 |
| | | | |
| C153, C202, C522, C523 | 22p | CAPACITOR, European symbol | 4 |
| C169 | 47p | CAPACITOR, European symbol | 1 |
| C36, C48, C70, C77*, C79*, C82*, C142, C149 | 220p | CAPACITOR, European symbol | 8 |
| | | | |
| C1, C26, C188, C189, C192, C193, C513, C521, C524, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C614, C615 | 0.1uF | CERAMIC CAPACITOR | 24 |
| | | | |
| C36*, C43*, C47*, C48*, C50*, C59*, C64*, C65*, C66*, C68*, C69*, C70* | 1.5n | CAPACITOR, European symbol | 12 |
| C66, C67, C127 | 1.8n | CAPACITOR, European symbol | 3 |
| C11*, C34, C51*, C52*, C53, C53*, C54*, C72*, C73*, C83, C97, C110, C114, C132, C133, C141, C150, C156 | 1n | CAPACITOR, European symbol | 18 |
| C30*, C31*, C117, C118, C119 | 2.2n | CAPACITOR, European symbol | 5 |
| C54, C86, C99 | 2.7n | CAPACITOR, European symbol | 3 |
| C10*, C15*, C16*, C29*, C49*, C57*, C2 | 3.3n | CAPACITOR, European symbol | 7 |
| C115, C116, C121, C122, C128, C129, C152 | 4.7n | CAPACITOR, European symbol | 7 |
| C105 | 5.6n | CAPACITOR, European symbol | 1 |
| C13*, C14*, C57, C60, C61, C73 | 6.8n | CAPACITOR, European symbol | 6 |
| C89 | 8.2n | CAPACITOR, European symbol | 1 |
| C2*, C3*, C28*, C55*, C56*, C58*, C69, C90*, C102, C111, C125, C131, C151, C8, C500, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C514 | 10n | CAPACITOR, European symbol | 27 |
| C78, C92 | 12n | CAPACITOR, European symbol | 2 |
| C40, C41, C42, C88 | 15n | CAPACITOR, European symbol | 4 |
| C1*, C4*, C5*, C33, C75, C139, C146 | 18n | CAPACITOR, European symbol | 7 |
| C6*, C42*, C44*, C46*, C56, C67*, C71*, C76*, C104, C112, C136, C154 | 22n | CAPACITOR, European symbol | 12 |
| C58, C59, C90, C91, C101, C103, C140 | 27n | CAPACITOR, European symbol | 7 |
| C39, C85, C87, C100, C108, C134, C137 | 33n | CAPACITOR, European symbol | 7 |
| C32, C72, C96 | 39n | CAPACITOR, European symbol | 3 |
| C3, C4, C5, C6, C63, C65, C71, C74, C77, C81, C84, C98, C113, C130, C138 | 47n | CAPACITOR, European symbol | 15 |
| C76 | 56n | CAPACITOR, European symbol | 1 |
| C38, C45, C52, C135 | 100n | CAPACITOR, European symbol | 4 |
| C14, C15, C17, C19, C21, C22, C23, C25, C27, C74*, C80*, C517, C518, C519 | 470p | CAPACITOR, European symbol | 14 |
| | | | |
| TM3, TM5, TM1 | 10KB | TRIMMER | 3 |
| TM4 | 22KB | TRIMMER | 1 |
| TM1*, TM2* | 220KB | TRIMMER | 2 |
| TM2 | 100K | TRIMMER MULTITURN | 1 |

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| C12, C13, C24*, C25*, C26*, C27*, C29, C44, C46, C62, C64, C79, C80, C84*, C85*, C88*, C89*, C94, C106, C107, C123, C124, C147, C148, C241, C35*, C55, C61* | 47/25 | POLARIZED CAPACITOR | 28 |
| C243 | 47/35 | POLARIZED CAPACITOR | 1 |
| C9*, C24, C39*, C51, C62*, C63*, C144, C47, C49 | 0.47/50 | POLARIZED CAPACITOR | 9 |
| C31, C34*, C38*, C40*, C41*, C75*, C143, C157, C50 | 1/50 | POLARIZED CAPACITOR | 9 |
| C7, C37*, C45* | 2.2/50 | POLARIZED CAPACITOR | 3 |
| C32*, C33*, C35, C60*, C120, C242, C252, C253, C254, C255 | 10/16 | POLARIZED CAPACITOR | 10 |
| C68, C78*, C81*, C82, C83*, C93, C95, C109, C126, C145, C43 | 33/6.3 | POLARIZED CAPACITOR | 11 |
| C515, C520, C12*, C18 | 100/10 | POLARIZED CAPACITOR | 4 |
| C194, C195 | 100/35 | POLARIZED CAPACITOR | 2 |
| C196 | 220/35 | POLARIZED CAPACITOR | 1 |
| C197 | 680/35 | POLARIZED CAPACITOR | 1 |
| C190, C191 | 2200/35 | POLARIZED CAPACITOR | 2 |
| | | | |
| SW2, SW3, SW12 | MSS12 | MSS12 | 3 |
| SW8, SW9, SW10, SW11 | MSS42_S W_4PDT | MSS42 4PDT switch | 4 |
| S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19 | MX1A_CH ERRY_SW _LED" | CHERRY SWITCH | 19 |
| S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36 | ZTSN_SW _LED" | 6MM ILLUMINATED SWITCH | 17 |
| | | | |
| VR29 | PEC16_EN CODER | BOURNS Rotary encoder with switch serie PEC16 | 1 |
| VR28 | 50K(B) | POTENTIOMETER | 1 |
| VR19 | 1M(B) | POTENTIOMETER | 1 |
| VR5* | 5K(A) | POTENTIOMETER | 1 |
| VR9 | 10K(B) | POTENTIOMETER | 1 |
| VR20 | 10K(B) CD | POTENTIOMETER CENTER DETENT | 1 |
| VR5 | 10K(C) | POTENTIOMETER | 1 |
| VR4* | 20K(B) | POTENTIOMETER | 1 |
| VR1, VR2, VR3, VR7, VR17, VR18, VR4, VR6*, VR7*, VR8*, VR10, VR12, VR14, VR16 | 100K(A) | POTENTIOMETER | 14 |
| VR6 | 500K(B) | POTENTIOMETER | 1 |
| VR11, VR13, VR15 | 500R(B) | POTENTIOMETER | 3 |
| VR8 | 100K(B) | POTENTIOMETER | 1 |
| VR2*, VR3* | 2M(B) | POTENTIOMETER | 2 |
| | | | |
| U1, U2, U3, U5, U6, U7, U8, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U24, U25, U27 | µPC4558C A | Dual Operational Amplifier | 22 |
| IC4 | 6N138 | MOTOROLA OPTO COUPLER | 1 |
| IC6 | TL072P | OP AMP | 1 |
| IC118 | MCP4822 | Dual 12 Bits DAC with internal Vref and SPI interface | 1 |
| U4 | 4584N | Hex SCHMITT TRIGGER (74C14) | 1 |
| U23 | AN6912 | Quad Comparator | 1 |
| IC1, IC2, IC110 | TL074P | OP AMP | 3 |
| U9, U22 | BA6110SIL | Single OTA/VCA with buffer in SIP | 2 |
| IC19, IC23 | M24M02M N | 2 Mbit serial I2C bus EEPROM | 2 |
| IC100, IC102, IC104, IC105, IC108 | 74HC165N | 8-bit parallel load SHIFT REGISTER | 5 |
| IC101, IC106, IC107, IC112, IC113, IC116, IC117 | 74HC595N | 8-bit SHIFT REGISTER, output latch | 7 |
| IC3 | 4049N | Hex inverting BUFFER | 1 |
| IC111, IC114 | 4051N | 8-channel ANALOG MULTIPLEXER | 2 |
| IC119 | ATMEGA1 284P-20PU | 8-bit Microcontroller with 64K Bytes In-System Programmable Flash | 1 |

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| Q3, Q5, Q5*, Q6*, Q7*, Q8*, Q29, Q40, Q46, Q51, Q54, Q57, Q60, Q65, Q66, Q71, Q72, Q79 | 2SA733 | PNP Silicon Transistor | 18 |
| Q1, Q1*, Q2, Q2*, Q3*, Q4, Q4*, Q9*, Q14*, Q15*, Q16*, Q17*, Q18*, Q19*, Q20*, Q21*, Q22*, Q23*, Q24*, Q25*, Q26*, Q27*, Q28, Q28*, Q29*, Q30*, Q31*, Q39, Q41, Q42, Q43, Q44, Q45, Q47, Q48, Q49, Q50, Q52, Q53, Q55, Q56, Q58, Q59, Q61, Q62, Q63, Q67, Q68, Q69, Q70, Q73 | 2SC945 | NPN Silicon Epitaxial Planar Transistor | 51 |
| Q6, Q74 | 2SK30 | JFET TRANSISTOR | 2 |
| Q35 | 2SC828 | NPN Silicon Epitaxial Planar Transistor | 1 |
| Q86 | 2N3906 | PNP Transistor | 1 |
| Q82, Q83 | 2SC2878 | | 2 |
| REG1 | L7815 | Positive VOLTAGE REGULATOR | 1 |
| REG2 | L7915 | 500 mA Negative Voltage Regulators | 1 |
| REG3 | LM2596T | SIMPLE SWITCHER® Power Converter 150 kHz 3A Step-Down Voltage Regulator | 1 |
| DIS1 | TUXGR_16 X2_R2 | Tuxgraphics LCD display 16x2 characters reflective, without background light | 1 |
| X1 | 16MHz | CRYSTAL | 1 |
| L1 | 33u | INDUCTOR | 1 |