

Bill of Materials

TI DESIGNS

TUSB542EVM INT030

| Item | Qty | Reference | Value | Part Description | Manufacturer | Manufacturer Part Number | Digikey Part Number | PCB Footprint | Note |
|------|-----|---|--------------|------------------------|---------------------------------|--------------------------|--------------------------------|---------------|--|
| 1 | 14 | C1,C2,C3,C4,C5,C6,C8,C9,C10,C19,C20,C23,C24,C25 | 0.1uF | Capacitor | TDK | C0603X7S1A104M030BC | 445-9018-2-ND | 201 | |
| 2 | 1 | C7 | 0.01uF | Capacitor | TDK | C0603X5R1A103K030BA | 445-1793-1-ND | 201 | |
| 3 | 6 | C11,C14,C17,C18,C26,C27 | 1uF | Capacitor | TDK | C1005X5R1A105K050BB | 445-4114-1-ND | 402 | |
| 4 | 4 | C12,C13,C15,C16 | 10uF | Capacitor | TDK | C1608X5R0J106M080AB | 445-4112-1-ND | 603 | |
| 5 | 1 | C21 | 47uF | Capacitor | TDK | C3216X6S0J476M160AB | 445-6011-1-ND | 1206 | |
| 6 | 1 | C22 | 47nF | Capacitor | TDK | C1005X7R1C473K050BC | 445-1264-1-ND | 402 | |
| 7 | 1 | D1 | | LED | LITE-ON | LTST-C170K6KT | 160-1414-1-ND | 805 | |
| 8 | 1 | D2 | | Schottky | Rohm Semiconductor | RB161M-20TR | RB161M-20TR-ND | SOD_123FL | |
| 9 | 7 | J1,J2,J3,J4,J5,J6,J7 | HDR2x1 M .1 | 2-Pin Header | Sullins Connector Solutions | S1012E-02 | S1012E-02-ND | | |
| 10 | 1 | P1 | | USB3 Type B Receptacle | Würth Electronics | 692221030100 | 732-3158-ND | | |
| 11 | 1 | P2 | | Type C USB Connector | JAE | DX075024JJ3R1300 | 670-2846-2-ND | | Alternate: 670-2794-1-ND p/n: DX075024JJ2R1300 |
| 12 | 1 | Q1 | | PMOS FET | Texas Instruments | CSD25484F4T | 296-42131-1-ND | YJJ-DFN_3 | |
| 13 | 12 | R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12 | 10K | Resistor | Panasonic Electronic Components | ERJ-2GEJ103X | P10KJCT-ND | 402 | |
| 14 | 1 | R13 | 909K | Resistor | Panasonic Electronic Components | ERJ-2RKF9093X | P909KLDKR-ND | 402 | |
| 15 | 1 | R14 | 499 | Resistor | Panasonic Electronic Components | ERJ-2RKF4990X | P499JCT-ND | 402 | |
| 16 | 1 | R15 | 4.7K | Resistor | Panasonic Electronic Components | ERJ-2GEJ472X | P4.7KJCT-ND | 402 | |
| 17 | 4 | R16,R17,R18,R19 | 200k | Resistor | Panasonic Electronic Components | ERJ-2RKF2003X | P200KJCT-ND | 402 | |
| 18 | 0 | R20 | 10K (No Pop) | Resistor | Panasonic Electronic Components | ERJ-2GEJ103X | P10KJCT-ND | 402 | NoPop |
| 19 | 1 | R21 | 29.4K | Resistor | Panasonic Electronic Components | ERJ-2RKF2942X | P29.4KJCT-ND | 402 | |
| 20 | 4 | R22,R23,R24,R25 | 0 | Resistor | Panasonic Electronic Components | ERJ-6GEYOR00V | P0.0ACT-ND | 805 | |
| 21 | 1 | R26 | 1.6k | Resistor | Panasonic Electronic Components | ERJ-1GEF1601C | P1.60KABCT-ND | 201 | |
| 22 | 5 | SW1,SW2,SW3,SW4,SW5 | | Switch | Copal Electronics | CJS-1201TA | 563-1023-1-ND | CJS-1200B | |
| 23 | 1 | U1 | | USB3 Switch / Redriver | Texas Instruments | TUSB542RWQ | N/A | RWQ | |
| 24 | 1 | U2 | | CC Controller | Texas Instruments | TUSB321RWBR | 296-42400-1-ND | RWB | |
| 25 | 1 | U3 | | 1.8V LDO | Texas Instruments | LP5907MFX-1.8NOPB | 296-41463-1-ND | SOT-23-5 | |
| 26 | 1 | U4 | | Power Switch | Texas Instruments | TPS25910RSA | 296-39385-1-ND | 16-VQFN | |
| 27 | 1 | U5 | | USB 2.0 Redriver | Texas Instruments | TUSB211RWB | 296-42399-6-ND | RWB | |
| 28 | 1 | U6 | | 3.3V LDO | Texas Instruments | LP5907SNX-3.3/NOPB | 296-39066-1-ND | X2SON | |
| 29 | 1 | PCB | | | ANY | INT030 | | | PCB Board |

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