



Bill of Materials for the FUSB307BGEVB Evaluation Board

| Designator(Main Board)         | Quantity | Description                                       | Value   | Tolerance | Footprint           | Manufacturer | Manufacturer Part Number | Substitution Allowed | Lead Free |
|--------------------------------|----------|---|---------|-----------|---------------------|--------------|--------------------------|----------------------|-----------|
| C1                             | 1        | CAP CER 10000PF 100V X7R 0603                     | 0.01uF  | 10%       | 0603                | TDK          | TDK C1608X7R2A103K080AA  | YES                  | YES       |
| C2-11                          | 10       | CAP CER 0.1UF 25V 10% X7R 0603                    | 0.1uF   | 10%       | 0603                | TDK          | TDK C1608X7R1E104K080AA  | YES                  | YES       |
| C13-22,26                      | 11       | CAP CER 1UF 16V 10% X5R 0603                      | 1uF     | 10%       | 0603                | TDK          | TDK C1608X5R1C105K080AA  | YES                  | YES       |
| C12                            | 1        | CAP CER 1UF 16V 10% X5R 0603 - Do Not Populate    | 1uF     | 10%       | 0603                | TDK          | TDK C1608X5R1C105K080AA  | YES                  | YES       |
| C23,24                         | 2        | CAP CER 4.7UF 10V 10% X5R 0603                    | 4.7uF   | 10%       | 0603                | TDK          | TDK CGB3B1X5R1A475K055AC | YES                  | YES       |
| C25                            | 1        | CAP CER 10UF 16V 10% X5R 0805 - DNP               | 10uF    | 10%       | 0805                | TDK          | TDK C2012X5R1C106K085AC  | YES                  | YES       |
| C27,28                         | 2        | CAP CER 220PF 50V COG 0603                        | 220pF   |           | 0603                | TDK          | TDK C1608COG1H221J080AA  | YES                  | YES       |
| D1-6                           | 6        | LED630NM RED WTR CLR 0805 SMD                     | Red LED |           | 0805                | ROHM         | Rohm SML-211UTT86        | YES                  | YES       |
| D7,8                           | 2        | TVS DIODE 5.5VWM 25VC SL2-2                       |         |           | 0201                | TDK          | TDK DF2B6M4SL,L3F        | YES                  | YES       |
| D9                             | 1        | TVS DIODE 26VWM 42.1VC SOD123W                    |         |           | 1206                | NXP          | NXP PTVS26V51UR,115      | YES                  | YES       |
| D10,11                         | 2        | Diode Schottky 10V 4A                             |         |           | 403-03              | onsemi       | ON MBR5410LT3G           | YES                  | YES       |
| J1                             | 1        | CONN RCPT USB3.1 TYPEC 24POS SMD                  |         |           | TYPEC USBC CONN 24P | AMPHENOL     | AMPHENOL 12401832E402A   | YES                  | YES       |
| J2                             | 1        | 16 Positions Header, Unshrouded Conn 0.100" - DNP |         |           | 8X2 0.100" HEADER   | SAMTEC       | SAMTEC TSW-108-07-L-D    | YES                  | YES       |
| J3                             | 1        | CONN RCPT REV MICRO USB TYPE B                    |         |           | MICRO USB SM        | FCI          | FCI 10103592-0001LF      | YES                  | YES       |
| J4,5                           | 2        | 6 Positions Header, Unshrouded Conn 0.100" - DNP  |         |           | 6 PIN 0.100" HEADER | SAMTEC       | SAMTEC TSW-106-07-L-S    | YES                  | YES       |
| JP1,2,5,7,19,20,21,22,23       | 9        | 3 Pos Hdr Conn 0.079" (2.00mm) Through Hole Gold  |         |           | 3 PIN 2mm HEADER    | 3M           | 3M 951103-8622-AR        | YES                  | YES       |
| JP3,4,6,8,9,11,12,15           | 8        | 2 Pos Hdr Conn 0.079" (2.00mm) Through Hole Gold  |         |           | 2 PIN 2mm HEADER    | 3M           | 3M 951102-8622-AR        | YES                  | YES       |
|                                | 17       | CONN JUMPER SHORTING 2MM GOLD                     |         |           | 2mm JUMPER SHORT    | SULLINS      | SULLINS SPN025XCN-RC     | YES                  | YES       |
| JP10,13                        | 2        | 0 Ohm Resistor                                    | 0       |           | 603 DUAL 0 OHM JMPR | PANASONIC    | Panasonic ERJ-3GEY0R00V  | YES                  | YES       |
| JP14,16,17,18                  | 4        | 0 Ohm Resistor - DNP                              | 0       |           | 603 DUAL 0 OHM JMPR | PANASONIC    | Panasonic ERJ-3GEY0R00V  | YES                  | YES       |
| R3,6,28                        | 3        | 0 Ohm Resistor                                    | 0       |           | 0603                | PANASONIC    | Panasonic ERJ-3GEY0R00V  | YES                  | YES       |
| R1,2,4,5,8,38,39               | 7        | 0 Ohm Resistor - DNP                              | 0       |           | 0603                | PANASONIC    | Panasonic ERJ-3GEY0R00V  | YES                  | YES       |
| R9,10,11                       | 3        | 1% Resistor                                       | 1.3K    | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1301V  | YES                  | YES       |
| R23                            | 1        | 1% Resistor - DNP                                 | 1.3K    | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1301V  | YES                  | YES       |
| R12                            | 1        | 1% Resistor                                       | 1.87K   | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1871V  | YES                  | YES       |
| R17,18,19,20,21,22             | 6        | 1% Resistor                                       | 1K      | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1001V  | YES                  | YES       |
| R24,25                         | 2        | 1% Resistor                                       | 2.2K    | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF2201V  | YES                  | YES       |
| R26                            | 1        | 1% Resistor                                       | 2.5K    | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF2491V  | YES                  | YES       |
| R27,29,30,31                   | 4        | 1% Resistor                                       | 10K     | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1002V  | YES                  | YES       |
| R32                            | 1        | 1% Resistor                                       | 30K     | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF3002V  | YES                  | YES       |
| R33,34,35                      | 3        | 1% Resistor                                       | 100K    | 1%        | 0603                | PANASONIC    | Panasonic ERJ-3EKF1003V  | YES                  | YES       |
| SW1,2                          | 2        | SWITCH TACTILE SPST-NO 0.05A 12V                  |         |           |                     | E-SWITCH     | E-Switch TL3301AF160QG   | YES                  | YES       |
| TP1,2,3,5,6,7,8,11,14,18,19,20 | 33       | TEST POINT PC MINI .040"D RED - DNP               | RED     |           | TEST POINT          | KEystone     | Keystone 5010            | YES                  | YES       |
| TP21-41                        |          | TEST POINT PC MINI .040"D RED - DNP               | RED     |           | TEST POINT          | KEystone     | Keystone 5010            | YES                  | YES       |
| TP4,9,10,12,13,42              | 6        | TEST POINT PC MINI .040"D RED                     | RED     |           | TEST POINT          | KEystone     | Keystone 5010            | YES                  | YES       |
| TP15,16,17                     | 3        | TEST POINT PC MINI .040"D BLACK                   | BLACK   |           | TEST POINT          | KEystone     | Keystone 5011            | YES                  | YES       |
| U1                             | 1        | IC USB CONTROLLER I2C 16WQFN                      |         |           | 16WQFFN             | onsemi       | ON FUSB307BMPX           | NO                   | YES       |
| U3,7                           | 2        | IC POWER SWITCH 24WLCSF                           |         |           | WLCSF24             | onsemi       | ON SEMI FPF2895VUCX      | NO                   | YES       |
| U2                             | 1        | IC POWER SWITCH 24WLCSF - DNP                     |         |           | WLCSF24             | onsemi       | ON SEMI FPF2895CUCX      | NO                   | YES       |
| U4                             | 1        | IC REG LDO ADJ 0.15A                              |         |           | SOT23-5             | onsemi       | ON NCP4623HSNADJT1G      | NO                   | YES       |
| U5                             | 1        | IC LOAD SWITCH CURR LIMIT 12WLCS                  |         |           | WLCSF12             | onsemi       | ON FPF2595UCX            | NO                   | YES       |
| U6                             | 1        | IC MCU 32BIT 128KB FLASH 48LQFP                   |         |           | 48LQFP              | ST-MICRO     | ST MICRO STM32F072CBT6   | NO                   | YES       |