

Arduino Uno Plus - Rev1

Bill of Material for				
Comment	Pattern	Quantity	Components	
ATmega16U2-MU*	Atmega16U2-N	1	U8	8-bit AVR Microcontroller, 2.7-5.5V, 16KB Flash, 512 Bytes EEPROM, 512 Bytes SRAM, 32-pin VQFN, Industrial Grade (-40°C to 85°C)
ATmega328P-MU*	ATmega328P-MU_N	1	U6	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin MLF, Industrial Grade (-40°C to 85°C)
LM339DR	SOIC-14*	3	Q1, Q3, Q4	Quad - LM339DR - Open-Collector - TI - SOIC-14
C7955	SOIC-8_L5.0-W4.0-P1.27-LS6.0-BL	2	U13, U14	Comparator, +-18V , Open-Collector (SOIC-8)
LM358DRG	SOIC8 - L	1	U3	Operational Amplifier, Unity Gain, Dual, TI, (SOIC-8) (LM358)
C7972	SOT-23-5	1	U12	General Purpose, 2.7V ~ 5.5V, 1MHz, 1 V/us, (SOT-23-5)
GS6001-TR	SOT-23-5	6	U1, U2, U4, U9, U10, U11	Operational Amplifier, Single, Rail-to-Rail, Gainsil, (SOT-23-5) (6001)
100nF	0402 Capacitor	6	C1, C8, C9, C10, C13, C14	Generic, SMD
1uF	0402 Capacitor	3	C2, C5, C15	Generic, SMD
22pF	0402 Capacitor	2	C11, C12	Generic, SMD
DNP	0402 Capacitor	1	C4	Generic, SMD
47uF	Electrolytic (5*5.4mm)	2	C6, C7	SMD - 47uF - 16V
1.4k	0402 Resistor	1	R52	Generic, SMD Resistor
1.6k	0402 Resistor	2	R55, R56	Generic, SMD Resistor
10k	0402 Resistor	11	R1, R2, R3, R7, R9, R20, R22, R23, R34, R35, R36	Generic, SMD Resistor
10M	0402 Resistor	20	R50, R51, R73, R74, R75, R76, R77, R78, R127, R11	Generic, SMD Resistor
150k	0402 Resistor	16	R87, R88, R89, R90, R99, R100, R101, R102, R111	Generic, SMD Resistor
1k	0402 Resistor	10	R13, R14, R15, R18, R31, R32, R33, R46, R47, R48	Generic, SMD Resistor
1M	0402 Resistor	2	R8, R10	Generic, SMD Resistor
2.2k	0402 Resistor	7	R16, R25, R27, R29, R37, R39, R43	Generic, SMD Resistor
22R	0402 Resistor	2	R11, R12	Generic, SMD Resistor
2k	0402 Resistor	1	R6	Generic, SMD Resistor
33k	0402 Resistor	16	R83, R84, R85, R86, R95, R96, R97, R98, R107, R11	Generic, SMD Resistor
36k	0402 Resistor	16	R79, R80, R81, R82, R91, R92, R93, R94, R103, R11	Generic, SMD Resistor
390R	0402 Resistor	3	R4, R5, R53	Generic, SMD Resistor
680R	0402 Resistor	16	R57, R58, R59, R60, R61, R62, R63, R64, R65, R66	Generic, SMD Resistor
68k	0402 Resistor	7	R17, R26, R28, R30, R38, R41, R44	Generic, SMD Resistor
68R	0402 Resistor	7	R19, R21, R24, R40, R42, R45, R49	Generic, SMD Resistor
880R	0402 Resistor	1	R54	Generic, SMD Resistor
Bead	0805 Inductor	1	L1	Generic, SMD
MF-MSMF050	1812 Fuse - Gold	1	Fuse1	1812, 15V, 0.5A, (157J)
16MHz	Ceramic Oscillator -CSTCE16M0V53	1	XTAL1	16MHz - Built in Capacitors - CSTCE16M0V53
16MHz	Crystal Oscillator - 5032 - 2 Pin	1	XTAL2	16MHz, 5032, 2Pin
1N4007 (M7)	DO-214AC (SMA)	1	D1	Diode, 1A, 1000V RRM, 1.1 FWD Voltage
PGB1010603MR	PGB1 - 0603	2	D2, D3	TVS, 15kV, 24V Working Voltage, Bi-directional
LP2985-33DBVR	SOT23-5	1	U5	3.3V, 16V input MAX, 150mA (TI) (SOT23-5)
78M05	DPAK - Min	1	U7	5.0V, 35V input MAX, 0.5A (DPAK)
D0	LED - 1206- Blue - Reverse Mount (Slot)	1	LED17	SMD
D1	LED - 1206- Blue - Reverse Mount (Slot)	1	LED21	SMD
D10	LED - 1206- Blue - Reverse Mount (Slot)	1	LED27	SMD
D11	LED - 1206- Blue - Reverse Mount (Slot)	1	LED31	SMD
D12	LED - 1206- Blue - Reverse Mount (Slot)	1	LED20	SMD
D13	LED - 1206- Blue - Reverse Mount (Slot)	1	LED24	SMD
D2	LED - 1206- Blue - Reverse Mount (Slot)	1	LED25	SMD
D3	LED - 1206- Blue - Reverse Mount (Slot)	1	LED29	SMD
D4	LED - 1206- Blue - Reverse Mount (Slot)	1	LED18	SMD
D5	LED - 1206- Blue - Reverse Mount (Slot)	1	LED22	SMD
D6	LED - 1206- Blue - Reverse Mount (Slot)	1	LED26	SMD
D7	LED - 1206- Blue - Reverse Mount (Slot)	1	LED30	SMD
D8	LED - 1206- Blue - Reverse Mount (Slot)	1	LED19	SMD
D9	LED - 1206- Blue - Reverse Mount (Slot)	1	LED23	SMD
SCL	LED - 1206- Blue - Reverse Mount (Slot)	1	LED28	SMD
SDA	LED - 1206- Blue - Reverse Mount (Slot)	1	LED32	SMD
A0	LED - 1206- Green - Reverse Mount (Slot)	1	LED5	SMD
A1	LED - 1206- Green - Reverse Mount (Slot)	1	LED6	SMD
A2	LED - 1206- Green - Reverse Mount (Slot)	1	LED7	SMD
A3	LED - 1206- Green - Reverse Mount (Slot)	1	LED8	SMD
A4	LED - 1206- Green - Reverse Mount (Slot)	1	LED9	SMD
A5	LED - 1206- Green - Reverse Mount (Slot)	1	LED10	SMD
AREF	LED - 1206- Green - Reverse Mount (Slot)	1	LED11	SMD
POWER	LED - 1206- Green - Reverse Mount (Slot)	1	LED3	SMD
3.3V	LED - 1206- Pink - Reverse Mount (Slot)	1	LED14	SMD
5V	LED - 1206- Red - Reverse Mount (Slot)	1	LED15	SMD
VIN	LED - 1206- Red - Reverse Mount (Slot)	1	LED16	SMD
IO	LED - 1206- White - Reverse Mount (Slot)	1	LED12	SMD
RST	LED - 1206- Yellow - Reverse Mount (Slot)	1	LED13	SMD
RX	LED - 1206- Yellow - Reverse Mount (Slot)	1	LED2	SMD
TX	LED - 1206- Yellow - Reverse Mount (Slot)	1	LED1	SMD
SK6805-EC15	SK6805-EC15	1	LED4	1.5 x 1.5 x 0.65mm - Addressable LED, 3.7-5.5V, 4pin
SS12D00	Switch - Selector - SS12D00	1	SW2	Switch - Selector - SS12D00
RESET	Tactal Switch - SMD 5Pin (6mm x 6mm x 3mm)	1	SW1	SMD(6mm x 6mm x 3mm)
FDN340P	Mosfet - Sot23 - Generic	1	Q5	P-Channel, SOT-23, 20V, 2A, WG1C
MMBT2222A	Transistor - Sot23 - Generic	7	Q6, Q7, Q8, Q9, Q10, Q11, Q12	NPN, SOT-23, 40V, 1000mA, 1P
Barrel Plug 5.5 x 2.1mm - Thru - Black	5.5 x 2.1mm DC Jack (THRU) - Hole Slotted	1	J1	5.5 x 2.1mm DC Jack - Thru
C2905006	CONN-SMD_4P-P1.00_DEALON_1.0-4PWB	1	CN1	1.0-4PWB
HIO	HDR1X10F	1	P1	Single Row, 10-Pin, Male/Female/Right Male/Right Female
ANALOG	HDR1X6F	1	P3	Single Row, 6-Pin, Male/Female/Right Male/Right Female
Header - 8pin - 2.54mm - Single Row	HDR1X8F	1	P4	Single Row, 8-Pin, Male/Female/Right Male/Right Female
POWER	HDR1X8F	1	P2	Single Row, 8-Pin, Male/Female/Right Male/Right Female
JP2	HDR2X2	1	P5	Dual Row, 4-Pin, Male/Female
ICSP	IDC - 2.54mm - 6 PIN*	1	IDC1	6 Pin 2.54mm
IDC 6 Pin	IDC - 2.54mm - 6 PIN*	1	IDC2	6 Pin 2.54mm
6706890000	USB - Female - Molex - 0670689000	1	USB1	Female - Molex - 06706890000, 0670687041