VoiceRecognitionGroup3

Bill of materials for Group 3, Voice Recognitic Source file: VoiceRecognitionGroup.sch Sou Last modified November 3rd 2018

PCB Version: 1.0 BOM Version: 1.0

P/DNP = Place/ Do not place componer Comments: All components are SMD unless other

Qty	Value	Parts	P/DNP	Mfg
	1 PWR-BLU 1 FUNC_GRN	LED1 LED2	P P	Dialight Dialight
	1 NOFUNC_RED 1 WARN_YELL	LED3 LED4	P P	Dialight Dialight
	2 MIC_ON, RESET1	Buttons	P	Panasonic
	8 100nF	C4, C6, C8, C12	P	Murata
	2 10k	R4, R8	P	Welwyn
	1 10uF	C5, C7	Р	Murrata
	116MHz	Q1	Р	NDK
	2 18pF	C1, C2	Р	Murata
	4 1k 1 1uF 2 22	R3, R5, R6, R7 C3 R1, R2	P P P	KOA Speer KEMET Welwyn
	15.5x2.1mm Barrel 1 ATMEGA32U4-AU 1 USB-A 1 DC Wall Wart 1 USB-A Cable 2 pack 1 120 Pack cables	J1 U\$1 X1 N/A N/a N/A	P P DNP DNP DNP	Adam Tech. Microchip CUI NLPOWER-CN DTOL Elegoo
	1 Misc Connectors EPL	N/A	DNP	EPL-PSU

Version Changes: Initial BOM

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rwise noted

Mfg Part # 597-6601-607F 599-0281-007F 597-6001-607F 597-6401-607F	Device Description 1206 Blue LED 1206 Green LED 1206 Red LED 1206 Yellow LED	Distributor Mouser Mouser Mouser Mouser Mouser
667-EVQ-Q2K01W	Tactile button 6mm square	Mouser
GRM31C5C2A104JA01L	100nF 100VDC 5% 1206 Capacitor	Mouser
WIN-T1206LF-03-1002-B	10k 1% 250mW 1206 resistor	Mouser
GCJ31CC71E106MA15L	10uF 25VDC 20% 1206 Capacitor	Mouser
NX3225SA-16.000000MHZ-T1	16MHz Surface Mount 10ppm	Mouser
GRM31A7U3D180JW31D	18pF 2kVDC 5% 1206 Capacitor	Mouser
RN73H2BTTD1001F100 C1206X105M3RACTU WCR1206-22RFI Unknown ATMEGA32U4-AU UJ2-AH-1-SMT-TR SFE-5V2AD Unknown Unknown	1k 1% 250mW 1206 resistor 1uF 25VDC 20% 1206 Capacitor 22 1% 250mW 1206 resistor Barrel Jack Female 5.5mm jack, 2.1mm center pole diameter ATMEGA32U4-AU USB-A DC Wall wart 5.5mmx2.1mm 5v, 2A USB-A Male to Male 4ft cable MI to MI, Fm to MI, Fm to Fm Connectors Miscellaneous Headers from EPL Store	Mouser Mouser Mouser Sparkfun Mouser Mouser Sparkfun Amazon Amazon EPL

	Price per	
Dist. Part #	•	Ext. Price
645-597-6601-607F	0.9	0.9
645-599-0281-007F	0.51	0.51
645-597-6001-607F	0.72	0.72
645-597-6401-607F	0.72	0.72
667-EVQ-Q2K01W	0.3	0.6
81- GRM31C5C2A104JA1L	0.71	5.68
66-		
WINT1206LF031002B	0.59	1.18
81- GCJ31CC71E106MA5L	0.94	0.94
344-	0.94	0.94
NX3225SA16MHZT1	0.92	0.92
81-		
GRM31A7U3D180JW1D 660-	0.74	1.48
RN73H2BT1001F100	0.44	1.76
80-C1206X105M3R	1.36	1.36
756-WCR1206-22RFI	0.1	0.2
PRT-12748	1.5	1.5
556-ATMEGA32U4-AU	4.12	4.12
490-UJ2-AH-1-SMT-TR	1.28	1.28
TOL-12889	5.95	5.95
link	8.2	8.2
link	6.98	6.98
Total Cook	3	3
Total Cost:		48

Notes

Only 1 bundled need for all 4 boards