

ECE477 Bill of Materials v1.0**Year: 2024****Semester: Spring****Authors: Liam Roach, Jakub Kowalski, Joshua Hom, Shubo Xie****Created: 2/10/2024****Last Modified: 2/10/2024**

Project_Component				
Description	ID	Qty	Value	Package
STM32F746		3	N/A	LQFP 144
Codec		5	N/A	QFN
TRS Jack		9	N/A	Surface mount
Electrolytic Capacitor		9	330uF	Radial, Can - SMD
Crystal Oscillator		3	12.288MHz	HC-49/US
Tactile Switch		6	N/A	Through-hole
Rotary Encoder		9	N/A	Through-hole
Inductor		3	10uH	Surface mount
Micro B USB Female		3	N/A	Surface mount
LCD TFT Breakout board		1	N/A	N/A
Electrolytic Capacitor		6	1uF	Radial, Can - SMD
18 position FPC connector		3	N/A	Surface mount
Power Regulator		3	3.3v	TO-261-4
Crystal Oscillator		3	25.000MHz	SMD
TVS Diode		100	N/A	0201

Project Name:Microphone Interface

			Qty:
Manufacturer	Mfg. Part #	Supplier	Supplier I
STMicroelectronics	STM32F746ZGT6	DigiKey	497-15820-ND
Cirrus Logic Inc.	WM8731CLSEFL	DigiKey	598-2459-ND
CUI Devices	SJ1-3515-SMT-TR	DigiKey	CP1-3515SJCT-ND
Panasonic Electronic Components	EEE-FT0J331AP	DigiKey	P15080CT-ND
Citizen Finedevice Co Ltd	HCM4912288000ABJ	DigiKey	300-6129-2-ND
OMRON	B3F-4050	DigiKey	SW413-ND
BOURNS	PEC11R-4215F-S0024	DigiKey	PEC11R-4215F-S0024
TDK Corporation	SLF7045T-100M1R3-	DigiKey	445-2014-2-ND
Amphenol ICC (FCI)	10118193-0001LF	DigiKey	609-4616-1-ND
Adafruit Industries	2090	Adafruit Industries	2090
Panasonic Electronic Components	EEE-FC1V1R0R	DigiKey	PCE4024TR-ND
Molex	0527461871	DigiKey	WM6773TR-ND
STMicroelectronics	LD1117S33TR	DigiKey	497-1242-2-ND
Abracon LLC	ABM7-25.000MHZ-D	DigiKey	535-9847-2-ND
KYOCERA AVX	GG020103100N2P	DigiKey	478-GG020103100N2

Part #
-ND
2PTR-ND