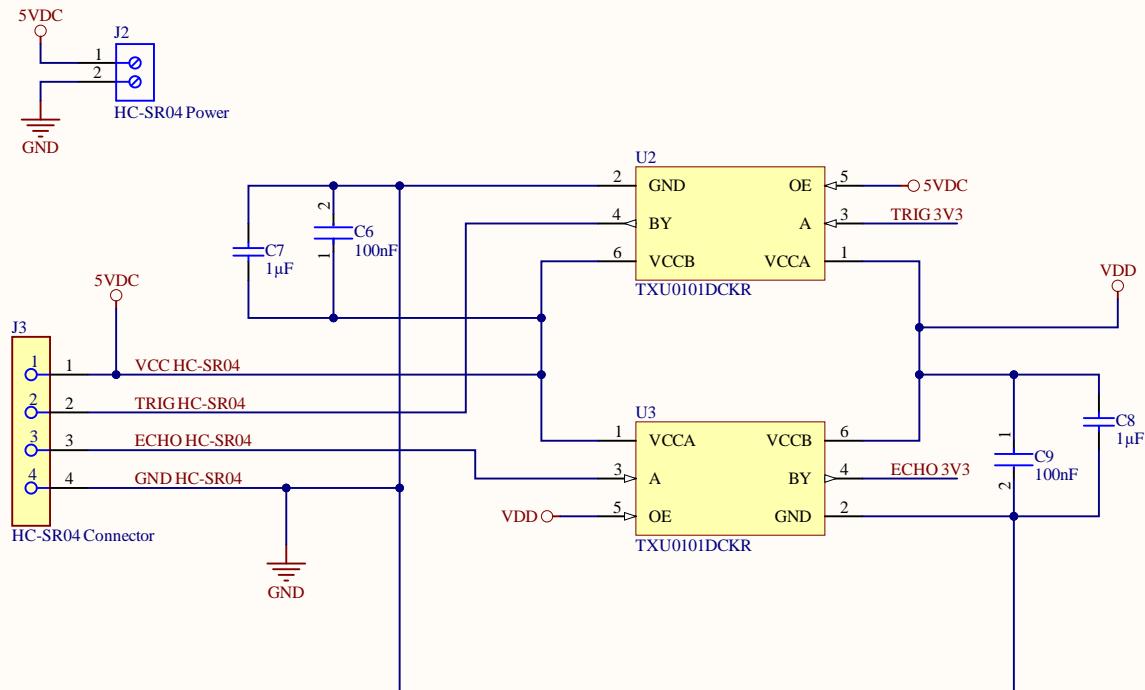


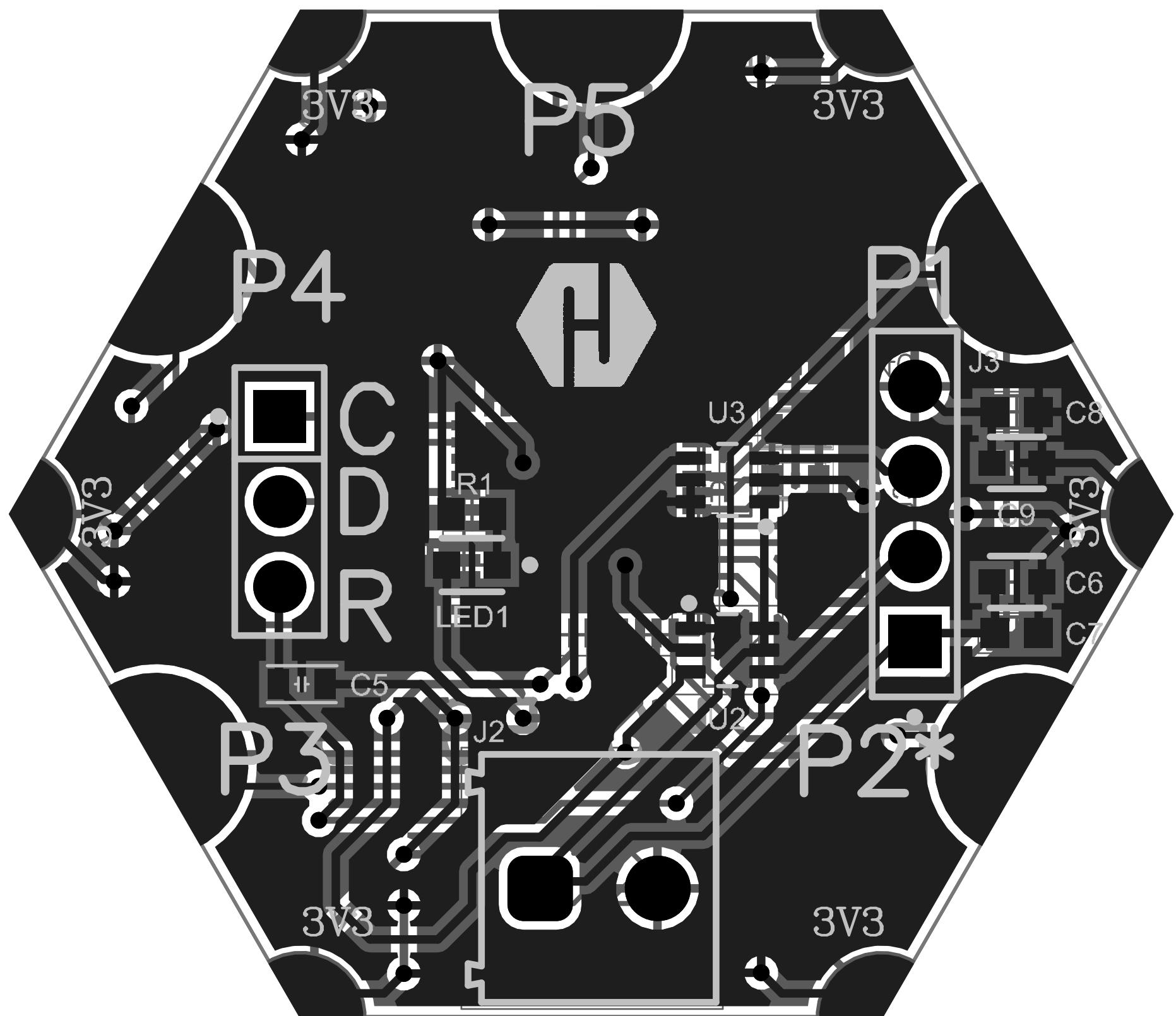
Module: H0AR6	Title: H0AR6_Backend.SchDoc
Description: Ultrasonic Sensor	Revision: 0 Size: Letter
Date: 11/27/2025	Time: 12:22:29 PM
	Sheet 1 of 2



Note: HC-SR04 Module will be mounted vertically. Its board will be perpendicular to the surface of the Hexabit



Module: H0AR6	Title: H0AR6_Frontend.SchDoc	Revision: 0 Size: Letter
Description: Ultrasonic Sensor		
Date: 11/27/2025	Time: 12:22:29 PM	Sheet 2 of 2



Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	CL10B104KA8NNNC	Ceramic Capacitor, Multilayer, Ceramic, 25V, 10% +Tol, 10%-Tol, X7R, +15% TC, 100nF, Surface Mount, .0603 inch	C1, C3, C5		Not managed		3							
	CL21X475KAQNNNE	Ceramic Capacitor, Multilayer, Ceramic, 25V, 10% +Tol, 10%-Tol, X6S, +22% TC, 4.7uF, Surface Mount, .0805 inch	C2		Not managed		1							
	CC0805KX7R7BB105	Ceramic Capacitor, Ceramic, 16V, 10% +Tol, 10%-Tol, X7R, 15% TC, 1uF, Surface Mount, .0805	C4		Not managed		1							
100nF	General Purpose Ceramic Capacitor, 0603, 100nF, 10%, X7R, 15%, 50V	C6, C9		Unknown server			2	KYOCERA/A/X	06035C104KAT2A	Volume Production	RS (Formerly Allied Electronics)	70001416	0.02	0.04
1μF		C7, C8		Unknown server			2	KEMET	C0603C105K4RACTU	Volume Production				
CDSDOD323-T03SC	A3V, 350W, bi-directional, standard capacitance, SOD323 pkg TVS Diode Bourns CDSDOD323-T03SC	D1		Not managed			1				DigiKey	CDSDOD323-T03SCDKR-ND		
MMZ1608Y300B	Ferrite Beads 0603 30ohms 1500mA Signal Line AEC-Q200	FB1		Not managed			1	TDK	MMZ1608Y300BTAA00	Volume Production	DigiKey	445-MMZ1608Y300BTAA00DKR-ND	0.1	0.1
TSW-103-14-G-S	CONN HEADER VERT3POS 2.54MM	J1		Unknown server			1	Samtec	TSW-103-14-G-S	Volume Production	Mouser	200-TSW10314GS	0.46	0.46
HC-SR04 Power		J2		Unknown server			1							
HC-SR04 Connector	SSW-104-02-G-S Board to Board & Mezzanine Connectors Tiger Bay Socket Strip with PCB Tails, .100 Pitch	J3		Unknown server			1	Samtec	SSW-104-02-G-S	Volume Production	Avnet	SSW-104-02-G-S	1.37	1.37
VLMS1300-GS08	LED Uni-Color Super Red 639nm 2-Pin Chip 0603(1608Metric) T/R	LED1		Not managed			1	Vishay	VLMS1300-GS08	Volume Production	DigiKey	VLMS1300-GS08DKR-ND	0.21	0.21
Manufacturer Part Number	Res Thick Film 0603 270 Ohm 5% 0.1W(1/10W) ±200ppm/C Pad SMD Automotive T/R	R1		Not managed			1							
Manufacturer Part Number	100mW Thick Film Resistors ±100ppm/°C ±1% 10kΩ 0603 Chip Resistor - Surface Mount ROHS	R2		Not managed			1							
Manufacturer Part Number		R3		Not managed			1							
STM32G0B1CEU6	MCU 32-bit ARM Cortex M0+ RISC 512KB Flash 1.8V/2.5V/3.3V/48-Pin UQFPN EP Tray	U1		Not managed			1	STMicroelectronics	STM32G0B1CEU6	Volume Production	Digikey	497-STM32G0B1CEU6-ND		
TXU0101DCKR	Single channel fixed-direction level shifter 6-SC70-40 to 125	U2, U3		Unknown server			2	Texas Instruments	TXU0101DCKR	Volume Production	Mouser	595-TXU0101DCKR	0.58	1.16
CSTCE8M00G52Z-R0	Ceramic Resonator 8MHz ±0.5% (Tol) ±0.2% (Stability) 10pF/400nm 3-Pin CSMD T/R	X1		Not managed			1							