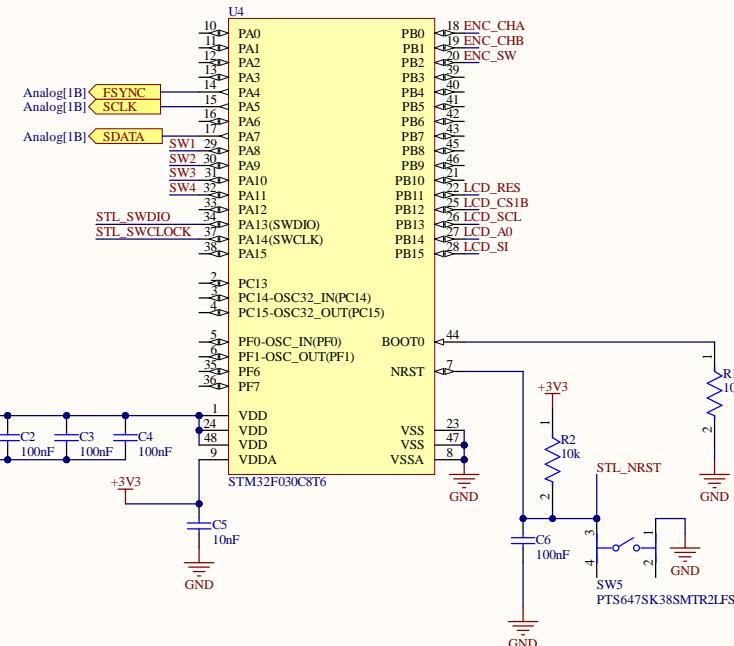
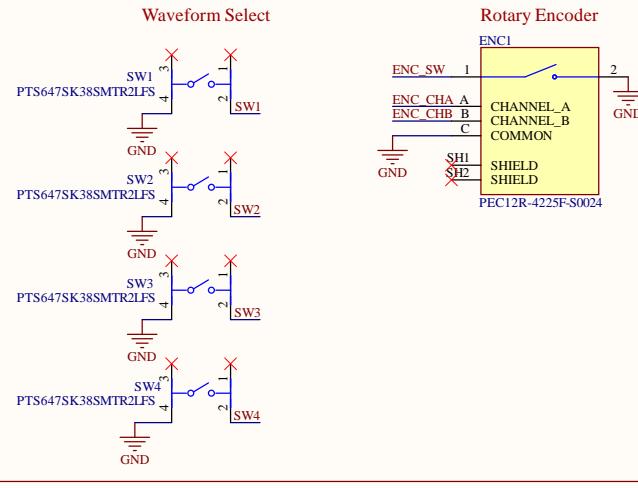


MCU



User Interface



Title

Size B

Number

Revision

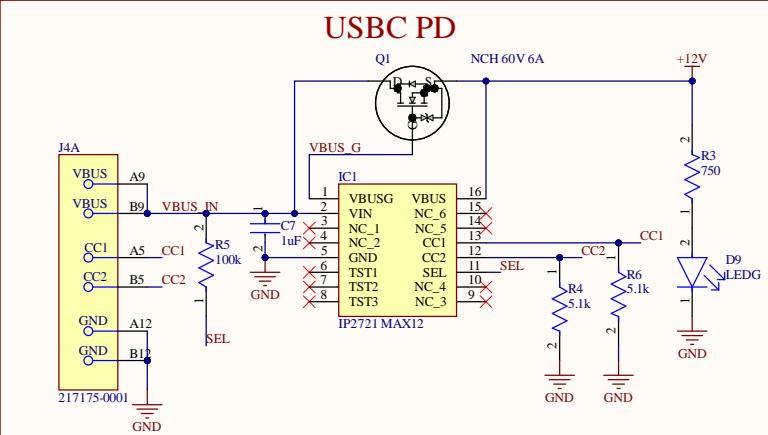
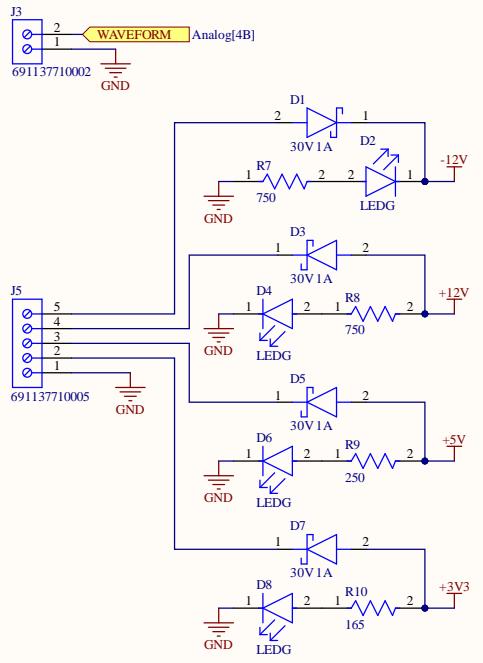
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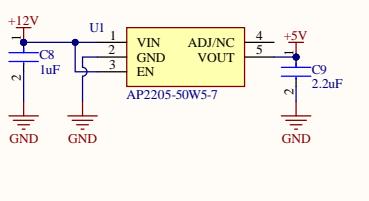
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Drawn By:

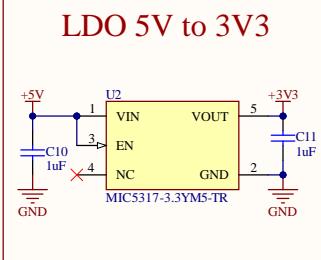
Output Terminals



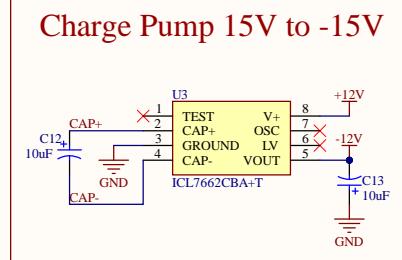
LDO 12V to 5V



LDO 5V to 3V3



Charge Pump 15V to -15V

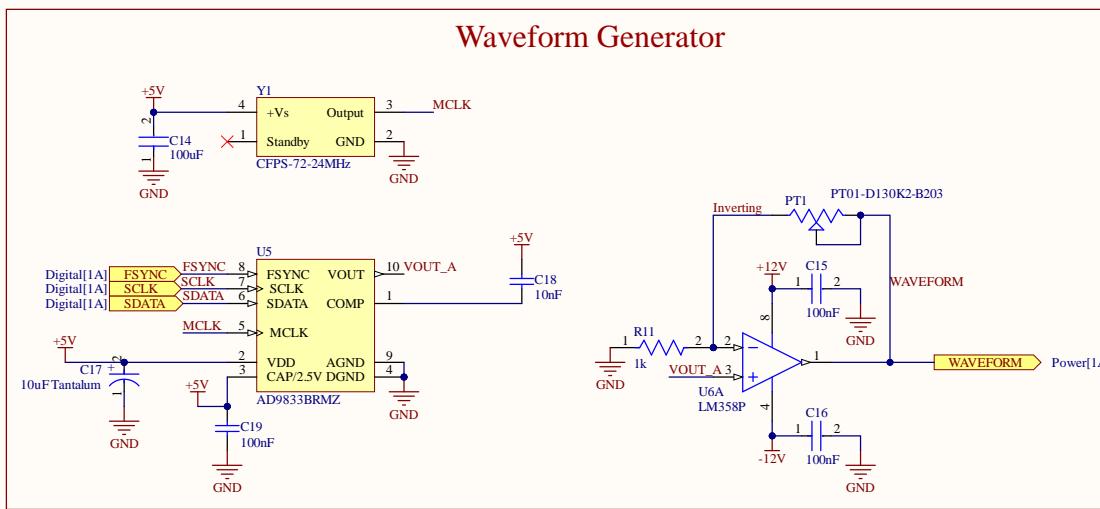


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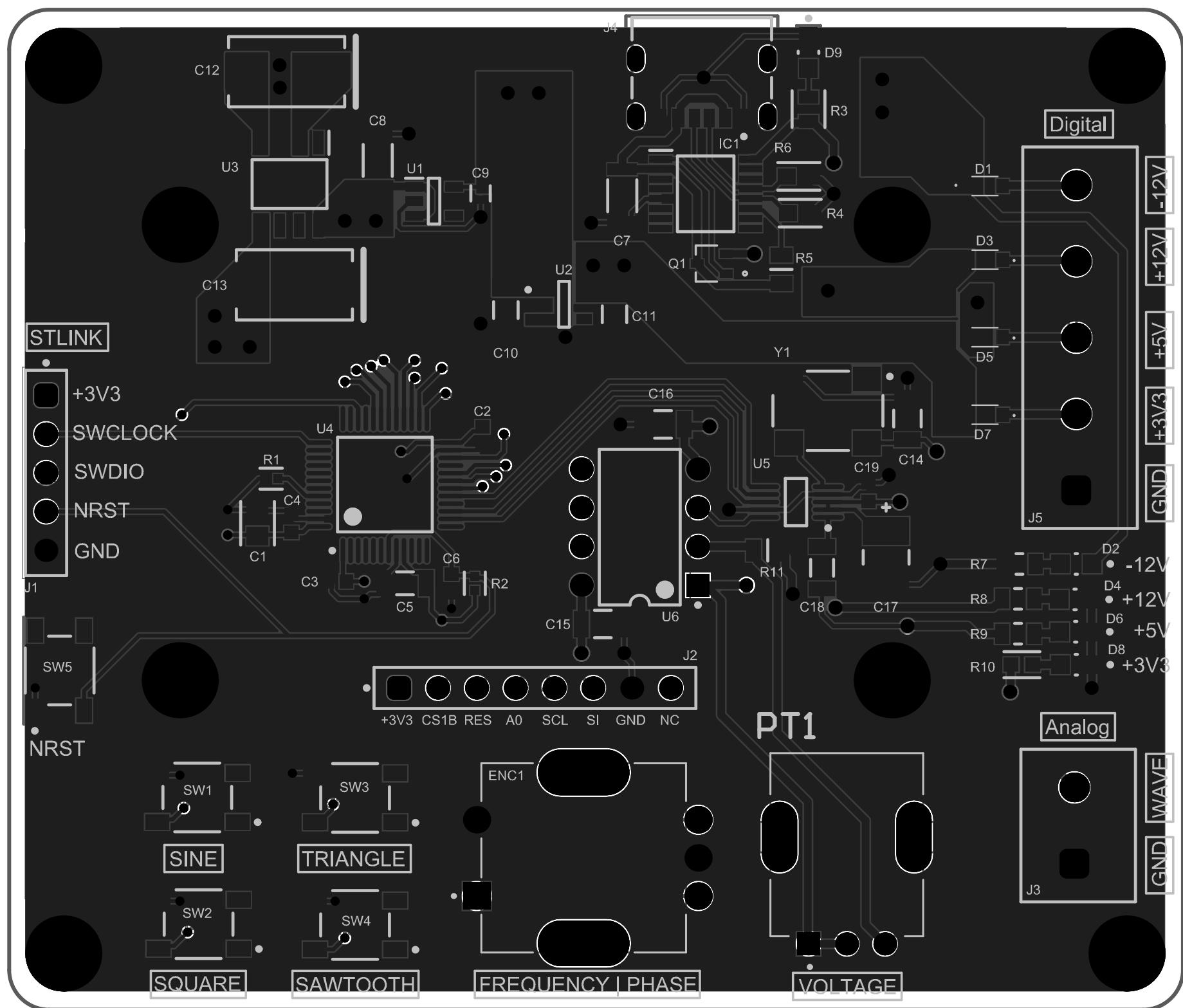
Size	Number	Revision
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Date: 12/29/2025
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Waveform Generator



Title		
Size	Number	Revision
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Date: 12/29/2025	Sheet of	
File: C:\Users\...\Analog.SchDoc		Drawn By:



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
4.7uF	Cap Multilayer Ceramic Capacitors for General Purpose, 0805, 4.7uF, X5R, 15%, 20% ,25V	C1			Unknown server		1	Bradford Electronics	RJL20C2371FS					
100nF	Ceramic 100nF 10V 10% 2-Pin Ceramic 100nF X7R 10V 5% 1206	C2, C3, C4, C6, C19			Unknown server		5	KEMET	C0603X104JARACTU	Volume Production				
10nF	CAP 10nF 10V 25% 1206 (216 Metric) Thickness 1.45mm SMD	C5, C18			Unknown server		2	KEMET	C1206C103JGAC					
1uF	Cap Ceramic 1uF 25V X7R 20% Pad SMD 1206 1206°C Automotive T/R	C7, C8			Unknown server		2	TDK	CGA6L2XTR1E10SM160AD	Volume Production				
2.2uF	C0402	C9			Unknown server		1							
1uF	CAP 1uF 10V 25% 1206 (216 Metric) Thickness 1.3mm SMD	C10, C11			Unknown server		2	KYOCERA AVX	1206ZC105JATA4A	Volume Production				
10uF	Tantalum Capacitor 10uF +/-10% 50V .55 to 125degC 2-Pin SMD (7343-43), RoHS, Tape and Reel	C12, C13			Unknown server		2	Vishay	293D106X050E2TE3	Volume Production				
100uF, 100nF	C1206 0.10uF C05 10.00% 25V X7R	C14, C15, C16			Unknown server		3	KEMET	C1206C104K3GACTU	Volume Production				
10uF/Tantalum	CAP TANT 10uF 10% 20V 1411	C17			Unknown server		1	Vishay	293D106X050E2TE3	Volume Production				
30V 1A	Schottky Diode	D1, D3, D5, D7			Not managed		4	Toshiba	CUS1S50.1H3FB	Volume Production				
LED	LED GREEN CLEAR SMD	D2, D4, D6, D8, D9			Unknown server		5	Lite-On	LTST-C170GKT	Volume Production				
PBC12R-422F-S0024	24Pulse Incremental Mechanical Rotary Encoder w/ 6 mm Flat Shaft,Through Hole Bourns PBC12R-422F-S0024	ENCl			Not managed		1							
IP2721 MAX12	Integrated Circuit	IC1			Not managed		1							
61300611821	J1				Unknown server		1	Wurth Elektronik	61300611821					
61300611821	J2				Unknown server		1	Wurth Elektronik	61300611821					
691137710002	J8				Unknown server		1	Wurth Elektronik	691137710002					
217175-0001	CONN RCP-USB2.0 C6+18P SMD RA	J4			Unknown server		1	Molex	217175-0001	Volume Production				
691137710005	J5				Unknown server		1	Wurth Elektronik	691137710005					
PT01-0130K-B203	PT01				Not managed		1							
NCH6V6A	N-ch MOSFET, 60 V, 6.0 A, 0.036 mΩ@10V, SOT-323(FUFM)	Q1			Not managed		1	Toshiba	SSM3K341ULFB					
10k	RES Thin Film, 10k, 0.1%, 0.0003W, 50ppm/C, 0402	R1, R2			Unknown server		2	Venkel	TFCR0402-16W-C-1002BT	Volume Production				
750	Thin Film Chip Resistors Automotive Grade 10kΩ, 0.1%, 50ppm/C 0805	R3			Unknown server		1	Yageo Group	ATD0805BRE0710K	Volume Production				
5.1k	RES Thin Film, 5.1kΩ, 0.25%, 0.1W, 25ppm/C, 0603	R4, R6			Unknown server		2	Venkel	TFCR063-10W-E-5101CT-1K	Volume Production				
100k, 1k	0805, RES1.05K OHM±0.5% 1/W 0805	R5, R11			Unknown server		2	Vishay	MCU08050F1001BP100	Volume Production				
750, 250	6.8kΩ ±5% 0.125W 0805 Thick Film Chip Resistor AEC Q200 compliant, 0805 250 Ohms 0.25W	R7, R8, R9			Unknown server		3	Stackpole Electronics	RMCF0805JTS980	Volume Production				
165	RES Thin Film, 620Ω, 0.25%, 0.1W, 25ppm/C, 0603	R10			Unknown server		1	Venkel	TFCR063-10W-E-6200CT	Volume Production				
PT3647SK38SMTR2LF	PT3647SK38SMTR2LF 3.8MM x 2.9MM x 1.45MM H=2.9MM	SM1, SM2, SM3, SM4, SM5			Unknown server		5	C&K Components	PT3647SK38SMTR2LF	Volume Production				
AP2205-50W5-7	Integrated Circuit	U1			Not managed		1							
ICREGLINEAR	ICREGLINEAR 3.3V 150mA SOT23-5	U2			Unknown server		1	Microchip	MIG5317-3.3VMS-TR	Volume Production				
IOL7662CBA-T	Integrated Circuit	U3			Not managed		1	Analog Devices	IOL7662CBA-T	Volume Production				
STM32F030CBT6	ARM Cortex-M0 32-bit MCU, 64 kB Flash, 8 kB Internal RAM, 39 I/Os, 48-Pin LQFP, -40 to 85 degC, tape and reel	U4			Unknown server		1	STMicroelectronics	STM32F030CBT6TR	Volume Production				
AD9833BRMZ	Low Power, 12.65 mW, 2.3 V to 5.5 V, Programmable Waveform Generator, 10-Bit Serial, RM-10, 50 Tubs, Pb-Free	U5			Unknown server		1	Analog Devices	AD9833BRMZ	Volume Production				
LM358P	Dual Operational Amplifier, 3 to 32 V, 0 to 70degC, 8-Pin PDIP (P), RoHS, Tape and Reel	U6			Unknown server		1	Texas Instruments	LM358P	Volume Production				
CFPS-72-24MHz	831019082WE SPeO/Cystal Oscillator	Y1			Unknown server		1	Wurth Elektronik	831019082					