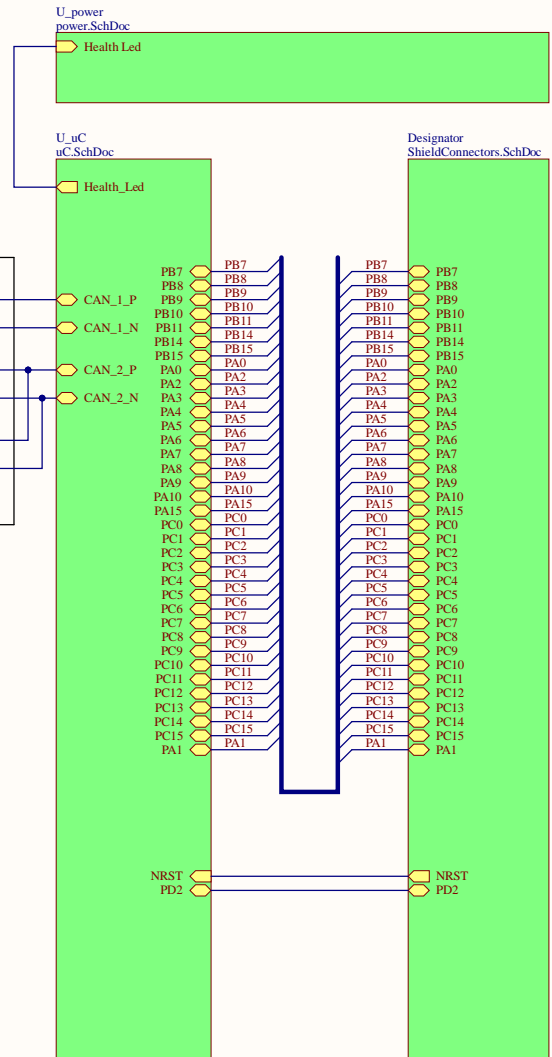
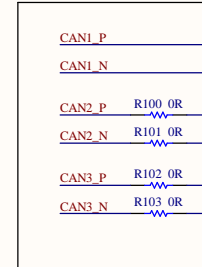


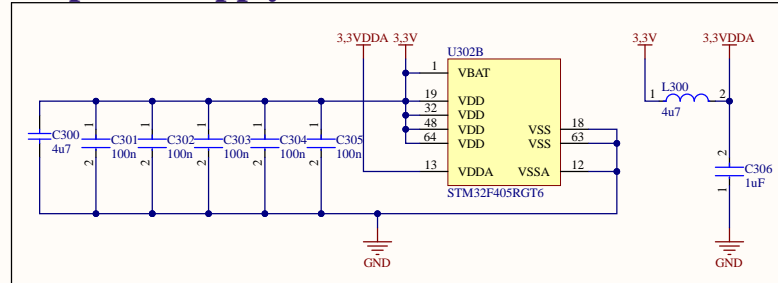
## CAN



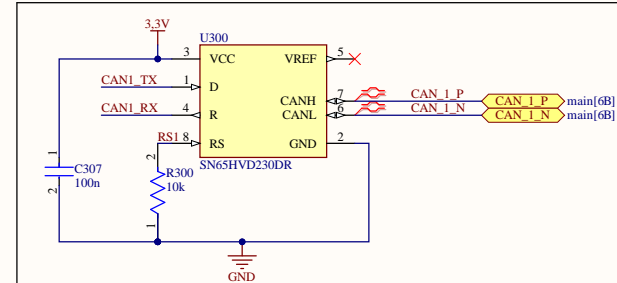
Notice: remember to remove NO ERC label "X" when port is in use

Title		
Prototype board		
Size	Number	Revision
A3		A
Date:	10/02/2024	Sheet of Base board
File:	F:\Documents\...\main.SchDoc	Drawn By: Artem Horiunov

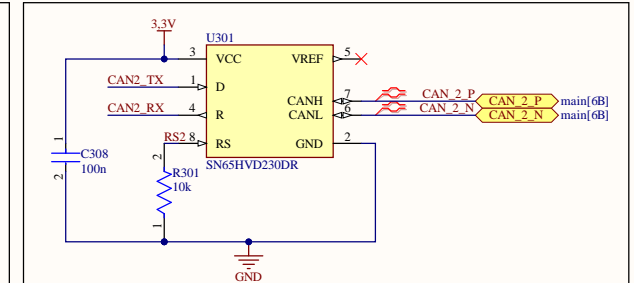
## uC power supply



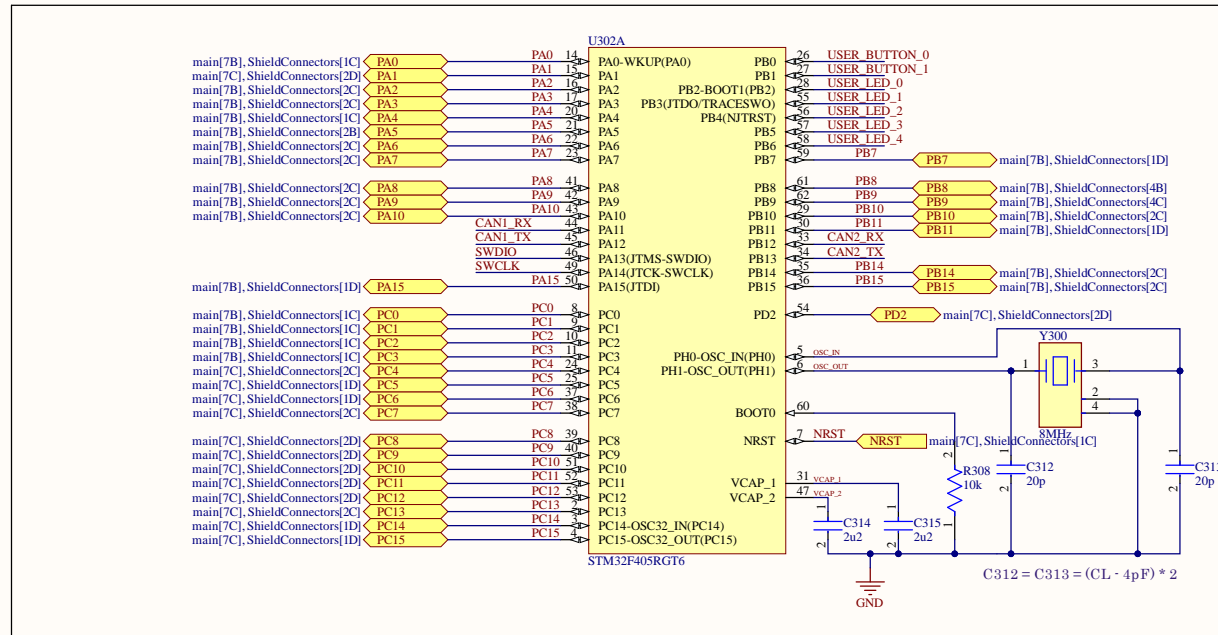
## CAN1 transceiver



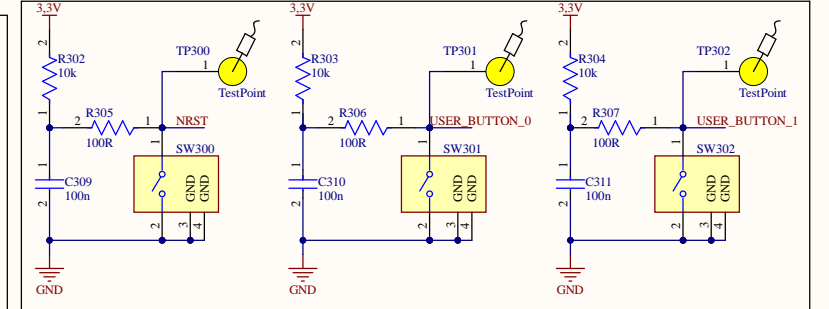
## CAN2 transceiver



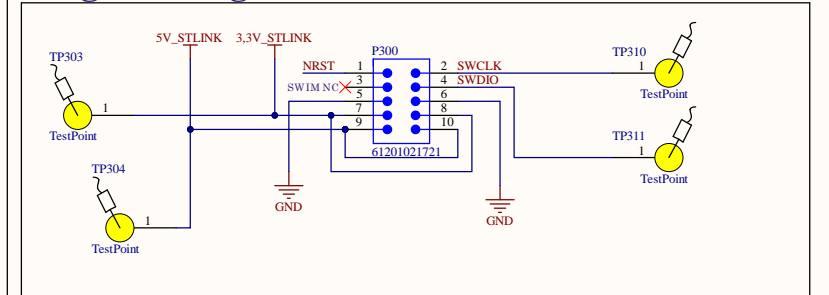
## uC



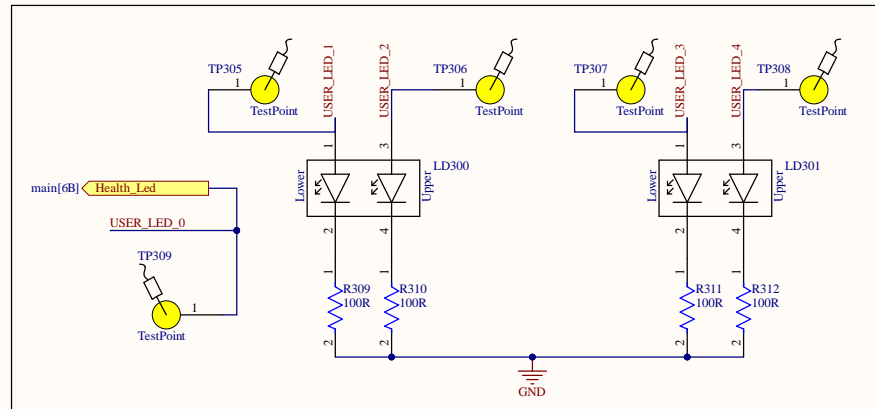
## Reset & user buttons



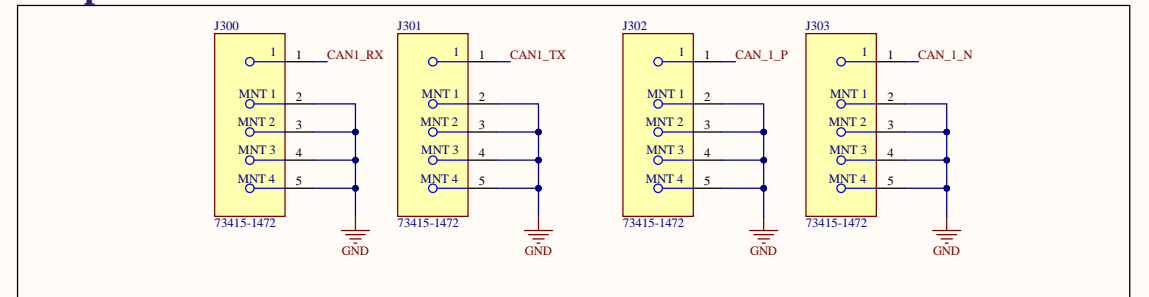
## Programming connector



## User LEDs

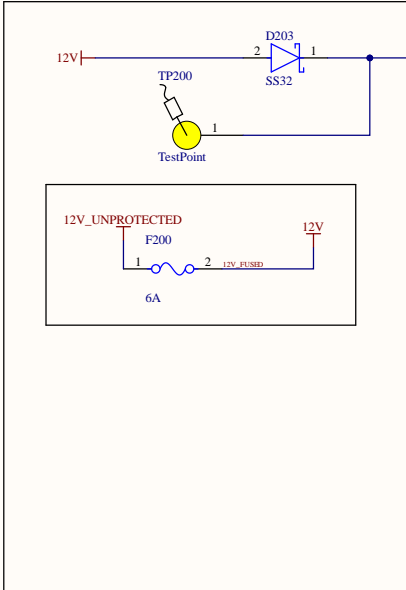


## Testpoints

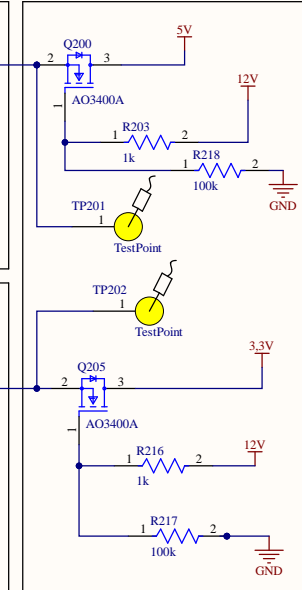
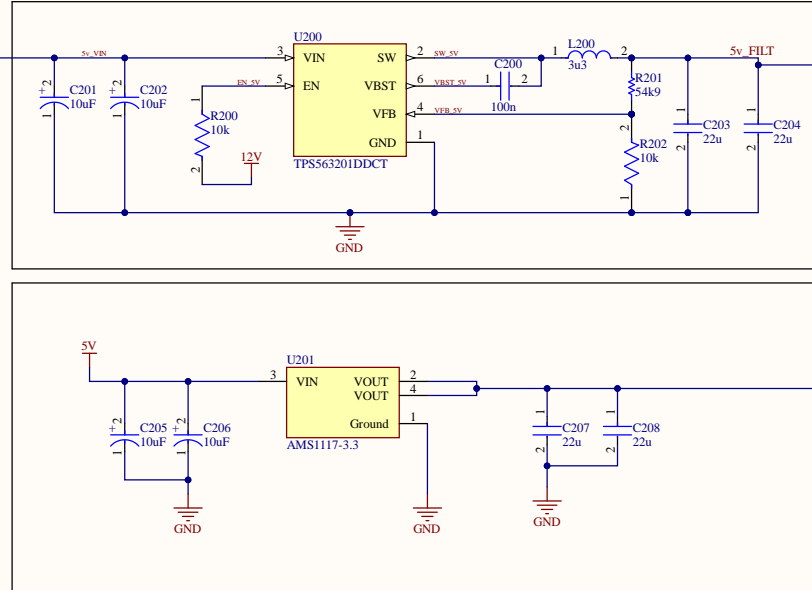


Title		
Size	Number	Revision
A3		A
Date:	10/02/2024	Sheet of Base board
File:	F:\Documents\...\uC.SchDoc	Drawn By: Dominik Pluta, Artem Horunov

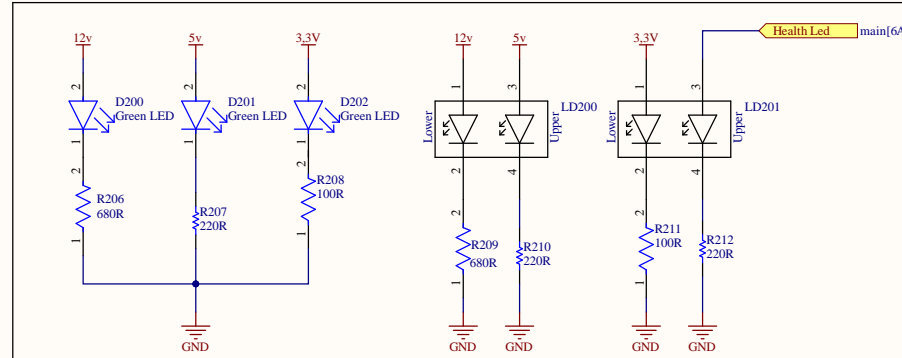
## Protections



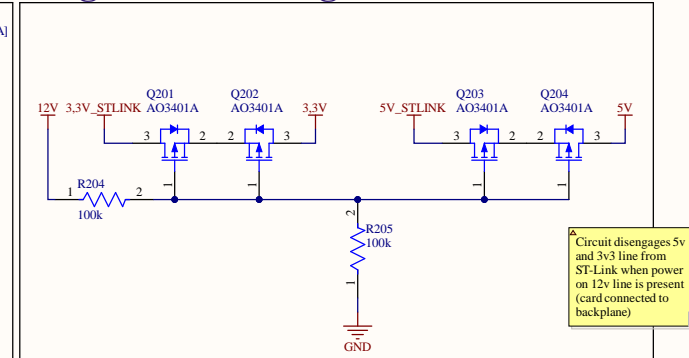
## 12V to 5V converter



## Power indicator LEDs

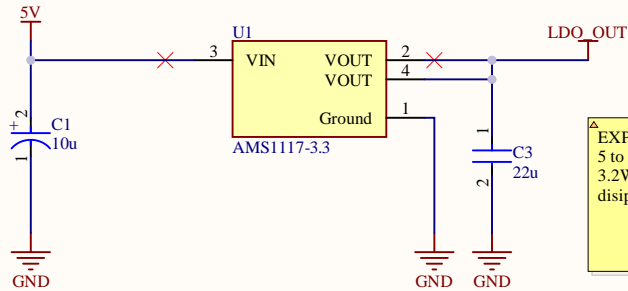


## Programmer voltage switch

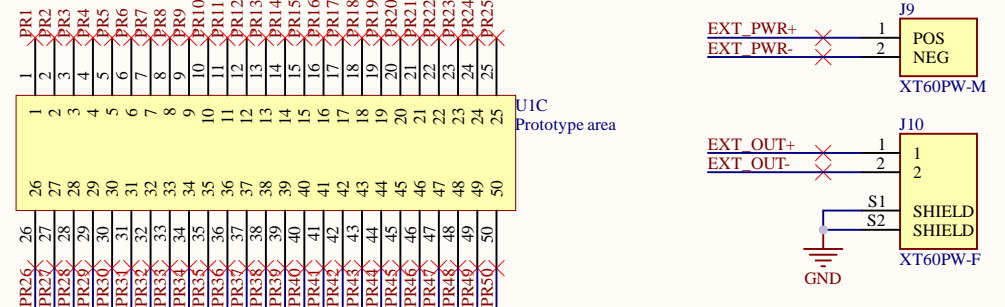


Title			Power supply section	
Size	Number	Revision		B
A3				
Date:	10/02/2024	Sheet of	Base board	
File:	F:\Documents\...\power.SchDoc	Drawn By:	Dominik Pluta, Artem Hryunov	

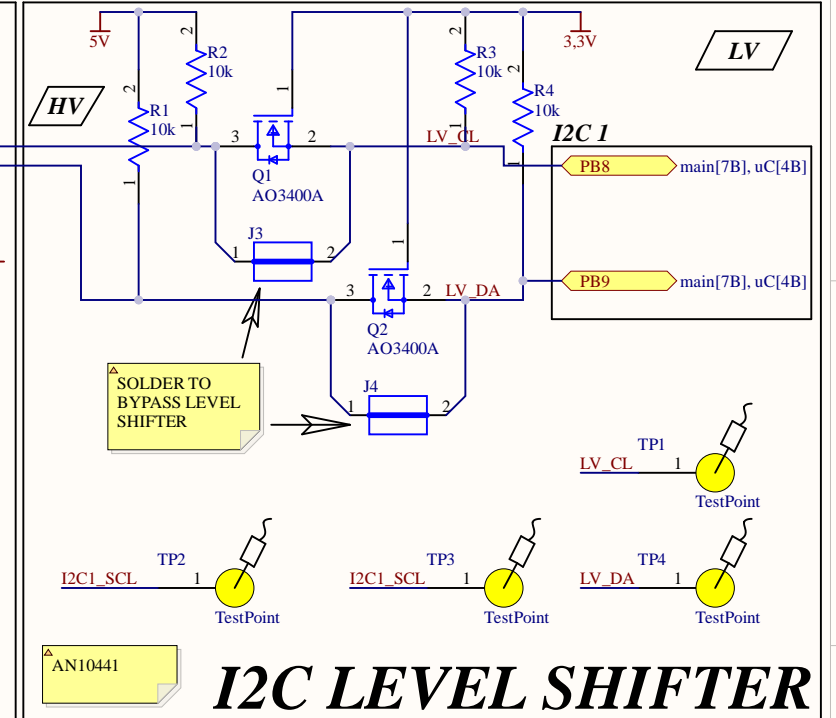
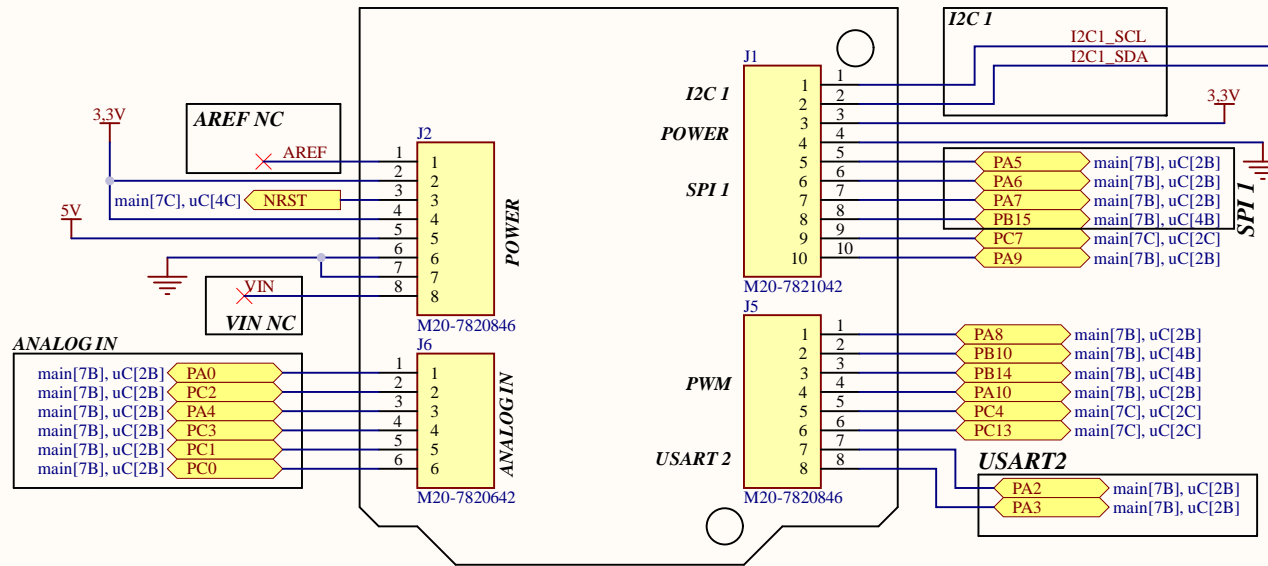
## ADDITIONAL LDO



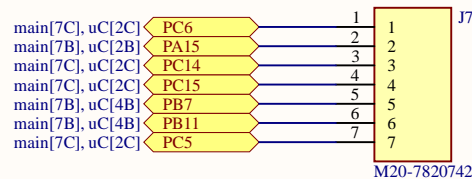
## IC breakout



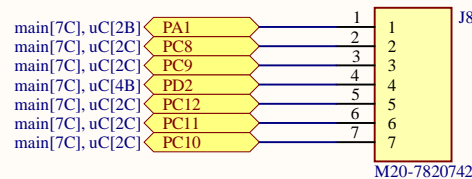
## SHIELD HEADER



## GPIO

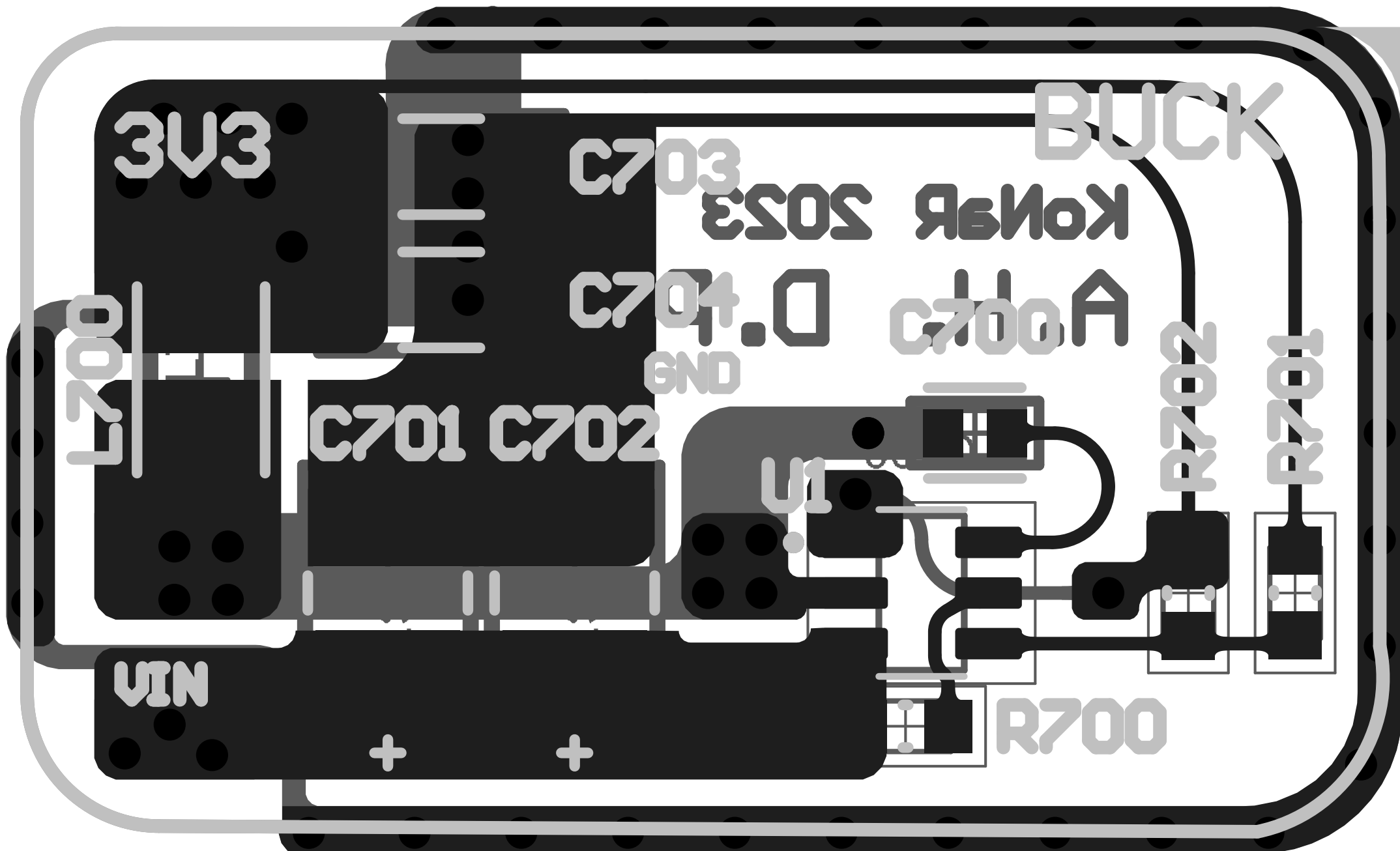


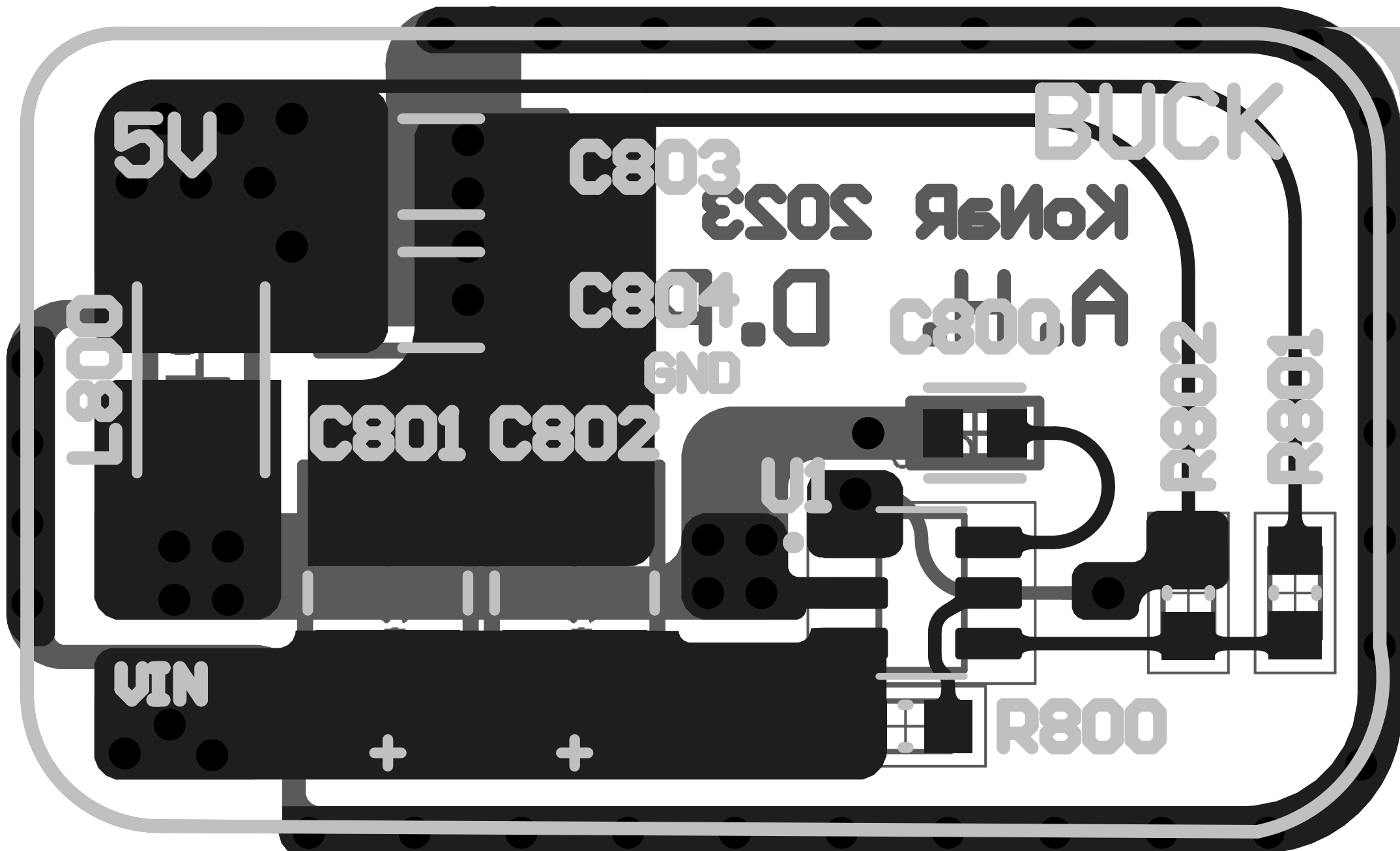
## SDIO



Title		
Shield Connectors		
Size	Number	Revision
A4		A
Date:	10/02/2024	Sheet of
File:	F:\Documents\...\ShieldConnectors.SchDoc	LP prototype board
	Drawn By:	Artem Horiunov









Bill of Materials fo BaseBoard.PrjPcb

Source Data From: BaseBoard.BomDoc  
Variant: None  
Report Date: 02/10/2024 07:45

Primary														Secondary		
Altium Vault P/N	Designator	Description	Qty	Supplier	Supplier Part Number	Manufacturer	Manufacturer Part Number	Supplier Unit Price	Supplier	Supplier Part Number	Manufacturer	Manufacturer Part Number	Supplier Unit Price			
CMP-05428-001070-1	C1, C201, C202, C205, C206	Molded Tantalum Polymer Capacitor 10uF 20% 16V Ife 2000Hours SMD 1411	5	Farnell	2354977	Panasonic	16TQC10M	1.2100								
CMP-06246-004858-1	C3, C203, C204, C207, C208	Multilayer Ceramic Capacitors 22uF ±20% 6.3V XSR SMD 1206	5			TDK	C3216XSR0J226M085AC									
CMP-2006-03061-2	C200, C301, C302, C303, C304, C305, C307, C308, C309, C310, C311	CAP CER 0.1uF 50V X7R 0603	11	Mouser	80-C0603C104KSR7867	KEOMET	C0603C104K5RACTU	0.0370								
CMP-2006-03238-1	C300		1			KEOMET	C0603C475K8PACTU									
CMP-2000-06025-2	C306	Multilayer Ceramic Capacitors 1uF ±10% 50V XSR SMD 0603	1	Mouser	810-C1608XSR1H105K	TDK	C1608XSR1H105K080AB	0.1600								
CMP-1035-00783-3	C312, C313	CAP CER 20PF 50V 5% NP0 0603	2	Mouser	80-C0603C200J5GAC	KEOMET	C0603C200J5GAC	0.2300								
CMP-2006-02836-2	C314, C315	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 2.2uF, X7R, 15%, 10%, 10V	2	Digkey	480-4520-1-ND	Murata	GRM188R71A225KE15D	0.1700								
CMP-18399-000013-1	D200, D201, D202	LED GREEN DIFFUSED 0603 SMD	3	Newark	09M0345	Broadcom Avago	HSME-C191	0.0410								
CMP-00278-84331622-1	D203	SS32 Rectifier Diode, Schottky, 1 Phase, 1 Element, 3A, 20V V(RRM), Silicon, DO-214AB	1	Arrow Electronics	SS32	ON Semiconductor / Fairchild	SS32	0.3654								
CMP-08605-000093-1	F200	FUSE BOARD MOUNT 750MA 63V ACVDC	1	Newark	12J3726	Littelfuse	0466.750NR	0.4320								
M20-7821042	J1	2.54mm (0.1") Pitch SIL Vertical Throughboard Socket Assembly, selective gold + tin, 10 contacts	1													
M20-7820846	J2, J5	Headers & Wire Housings 8 PIN SIL VERTICAL SOCKET TIN	2													
CMP-009-00051-2	J3, J4	JUMPER	2													
M20-7820642	J6	HW RWN - M20-7820642 - Board-To-Board Connector, 2.54 mm, 6 Contacts, Receptacle, M20 Series, Through Hole, 1 Row s	1													
M20-7820742	J7, J8	Headers & Wire Housings 7 PIN SIL VERTICAL SOCKET GOLD+TIN	2													
CMP-002-00072-1	J9	Socket, DC supply, male, PIN 2	1													
CMP-002-00073-1	J10	Socket DC Supply Connector Female	1													
CMP-33111-000001-1	J100	CONN DIN HDR 60POS PCB RA	1	Arrow Electronics	09031646921	HARTING Technology	09031646921	2.8500								
CMP-00257-24916978-1	J500, J301, J302, J303	73415-1472 50 Ohm, MMCK Vertical Jack, PCB, Brass and Gold Per Commercial Requirements, One Piece Per Bag	4	Mouser	538-73415-1472	Molex	73415-1472	3.5900								
CMP-07248-000008-1	L200	FIXED IND 3.3uH 3.5A 76 MOHM SMD	1	Mouser	652-SRP4020TA-3R3M	Bourns	SRP4020TA-3R3M	1.1800								
CMP-06042-016801-1	L300	Multilayer Type Inductor for General Circuits, 0805 (2012), 22uH, 30%, 0.65Q, 13mA	1	Digkey	490-6689-1-ND	Murata	LQM21NNR7K10L	0.2600								
DoubleStack_Side_Led_3mm	LD200, LD201, LD300, LD301		4													
CMP-1862-00021-2	R300		1	Mouser	710-61201021721	Würth Electronics	61201021721	0.6300								
CMP-83955-000006-1	Q1, Q2, Q200, Q205	MOSFET N-CH 30V 5.7A SOT23	4	Digkey	785-1000-1-ND	Alpha & Omega Semiconductor	AC3400A	0.4600								
CMP-2000-05778-1	Q201, Q202, Q203, Q204	P-Channel MOSFET, 30 V, 4 A, -55 to 150 degC, 3-Pin SOT-23-3L, RoHS, Tape and Reel	4	Arrow Electronics	AC3401A	Alpha & Omega Semiconductor	AC3401A	0.3421								
CMP-2100-03664-2	R1, R2, R3, R4, R200, R202, R300, R301, R302, R303, R304, R308	RES 10K OHM 1% 1/10W 0603	12	Mouser	603-RC0603FR-0710KL	Yageo	RC0603FR-0710KL	0.0120								
CMP-2100-03667-1	R100, R101, R102, R103	Chip Resistor, 0 Ohm, +/- 5%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	4	Mouser	603-RC0603JR-070RL	Yageo	RC0603JR-070RL	0.0090								
CMP-2000-00561-1	R201		1	Newark	6578488	Panasonic	ERJ-3BK5482V	0.0030								
CMP-2000-00873-2	R203, R216	RES SMD 1K OHM 0.1% 1/10W 0603	2	Mouser	667-ERA-3AEB102V	Panasonic	ERA-3AEB102V	0.1300								
CMP-2100-03662-2	R204, R205, R217, R218	RES SMD 100K OHM 1% 1/10W 0603	4	Mouser	603-RC0603FR-07100KL	Yageo	RC0603FR-07100KL	0.0110								
CMP-2000-03529-2	R206, R209	RES Thick Film, 680Q, 1%, 0.1W, 100ppm/C, 0603	2	Digkey	541-680HCT-ND	Vishay	CRCW603680RPFKEA	0.1000								
CMP-1659-00018-2	R207, R210, R212	General Purpose Chip Resistors, 220 Ohm, +/- 1%, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	3	Mouser	603-RC0603FR-07220RL	Yageo	RC0603FR-07220RL	0.0120								
CMP-2100-03663-2	R208, R211, R305, R306, R307, R309, R310, R311, R312		9	Mouser	603-RC0603FR-07100RL	Yageo	RC0603FR-07100RL	0.0120								
CMP-08834-000053-1	SW300, SW301, SW302	SWITCH TACTILE SPST-NO 0.05A 24V	3	Arrow Electronics	B3F-3122	Omron	B3F-3122	0.2651								
CMP-029-000000-1	U1		1													
CMP-209535-000001-1	U1, U201	LDO Voltage Regulators 1A, 3.3V	2			Advanced Monolithic Systems	AMS1117-3.3									
CMP-007-000000-1	U200		1													
CMP-0315-00015-3	U300, U301	IC TRANSCEIVER HALF 1/1 8SOIC	2	Arrow Electronics	SN65HVD230DR	Texas Instruments	SN65HVD230DR	1.1000								
CMP-0243-00019-3	U302	ARM Cortex-M 32-bit MCU+FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	1	Future Electronics	9026839	STMicroelectronics	STM32F406RG16	6.9000								
CMP-18717-000311-1	Y300	Crystal 12MHz, 10ppm, 10pF, 80Q	1	Mouser	717-7M-12.000MEEQ-T	TXC	7M-12.000MEEQ-T	1.1300								