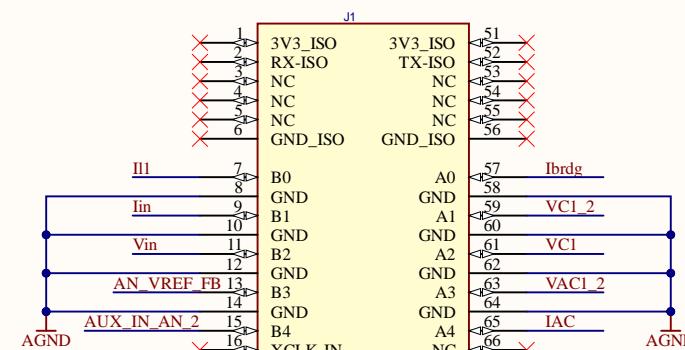
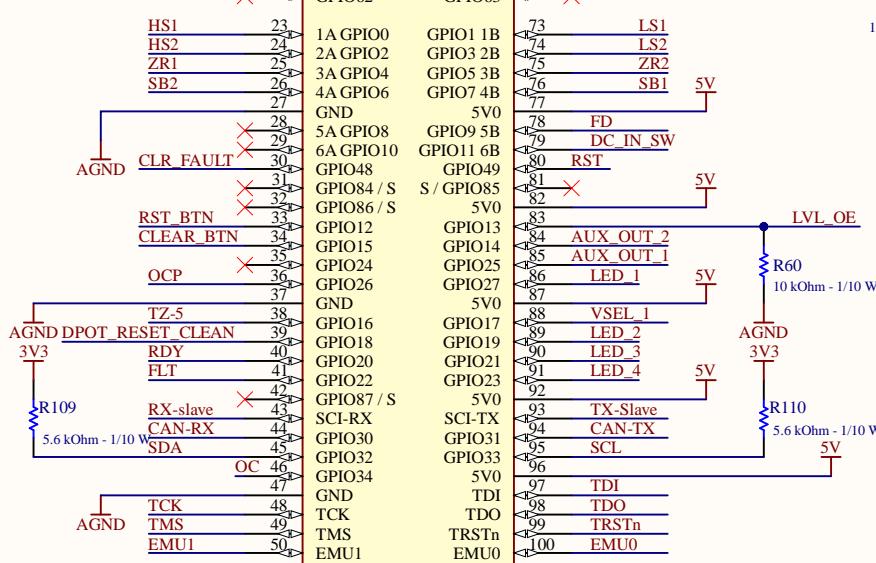


1 2 3 4

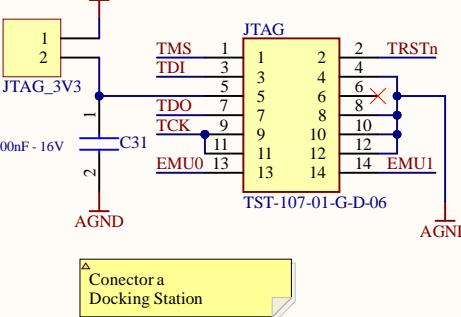
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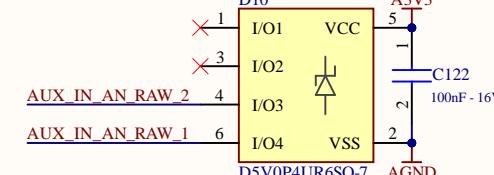
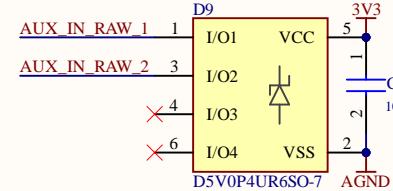
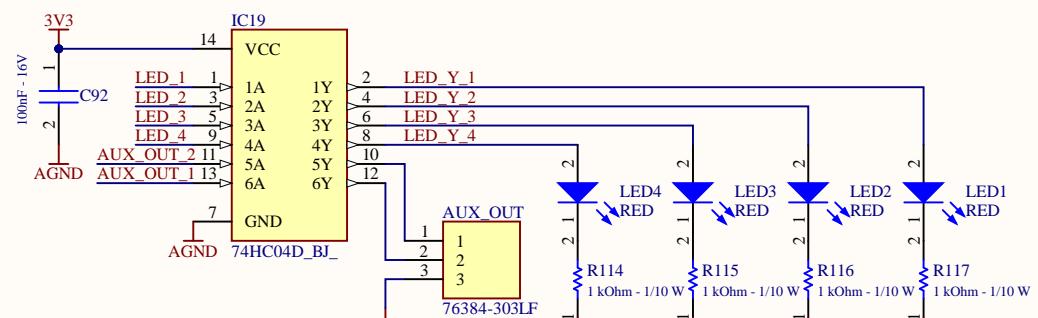
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C

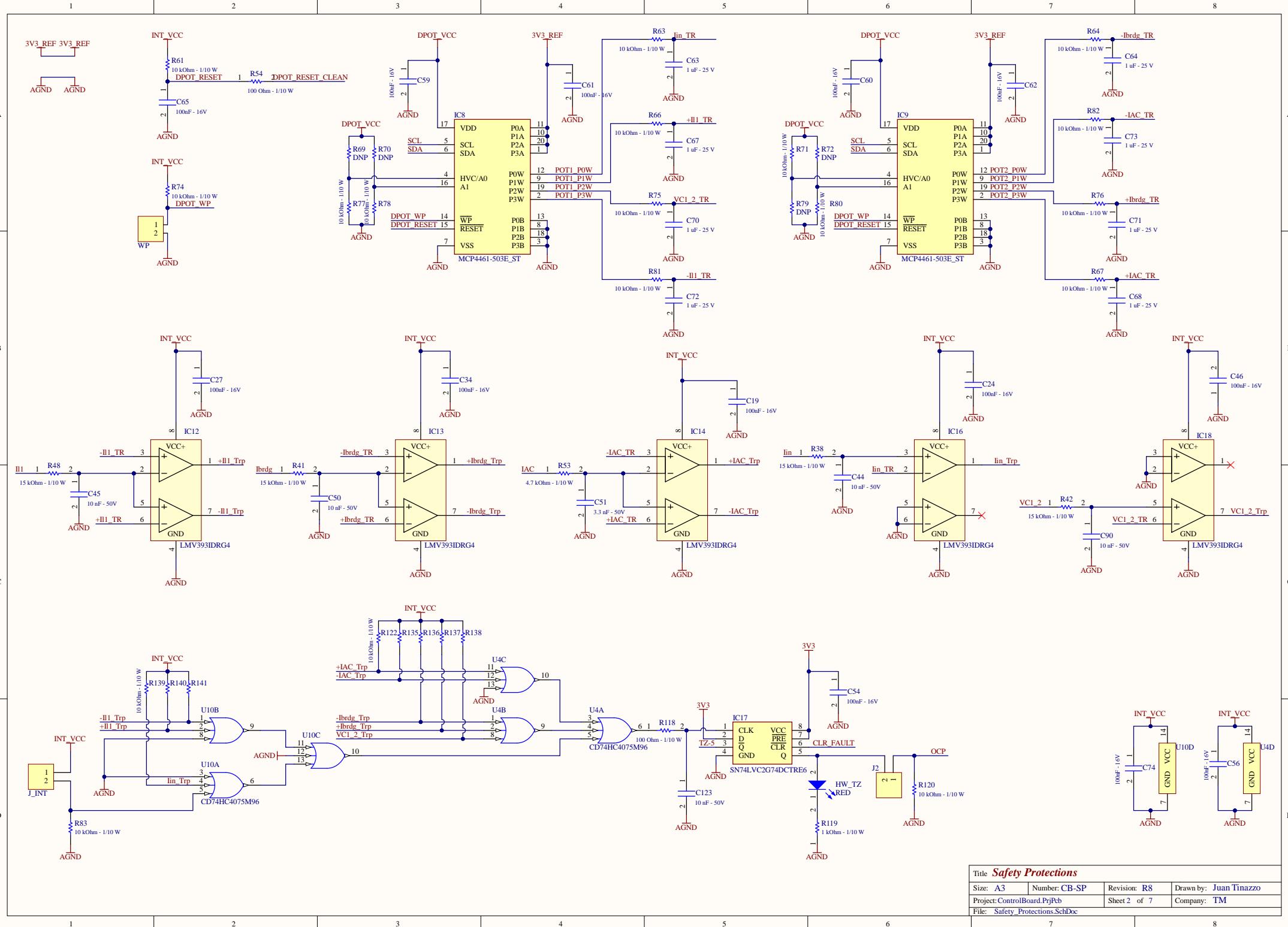


Conector a Docking Station

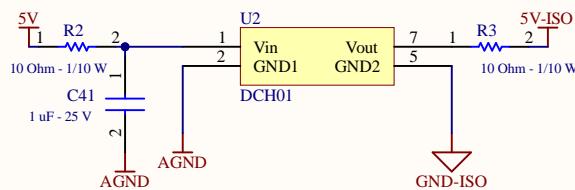
**Title Control Board**

Size: A4	Number: CB-DSP	Revision: R8	Drawn by: Juan Tinazzo
Project: ControlBoard.PjPcb	Sheet 1 of 7	Company: TM	
File: Control.SchDoc			

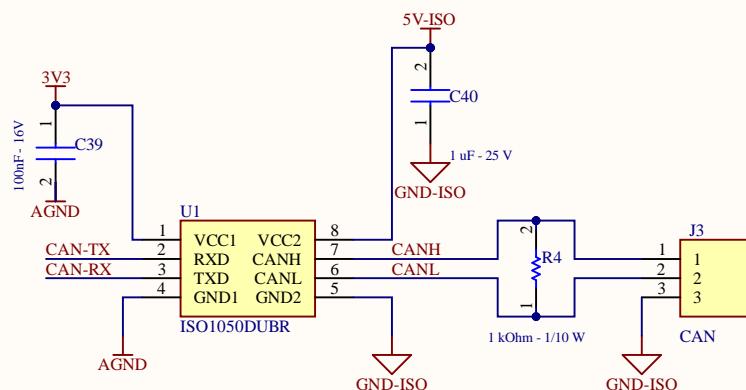
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A



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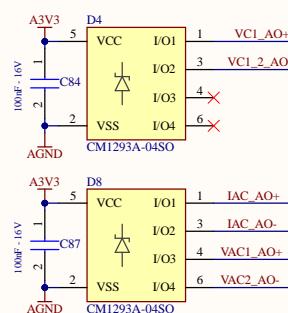
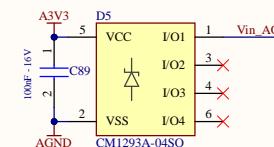
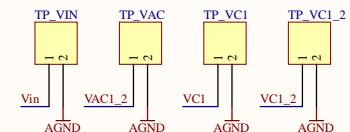
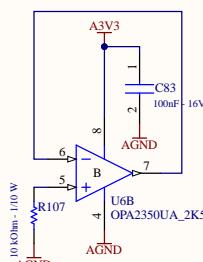
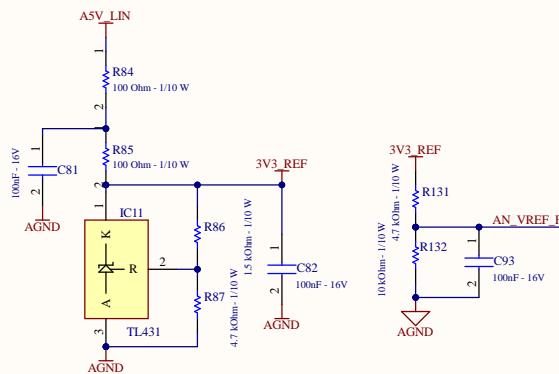
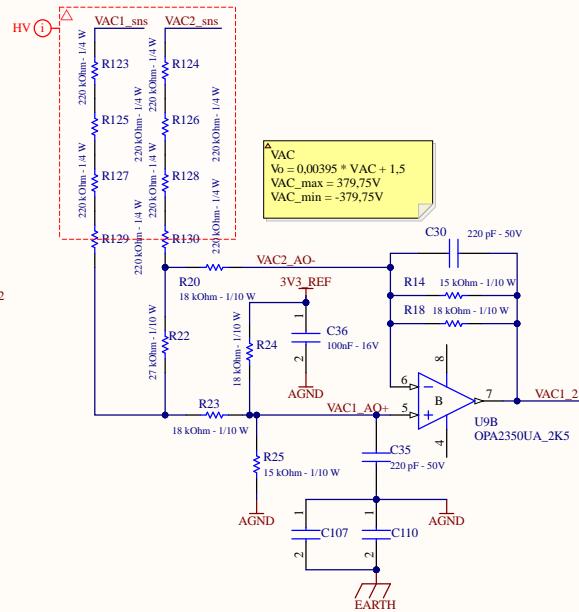
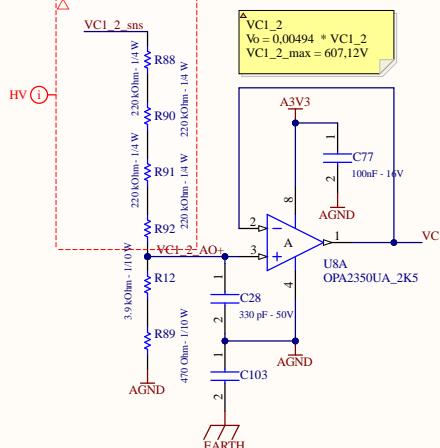
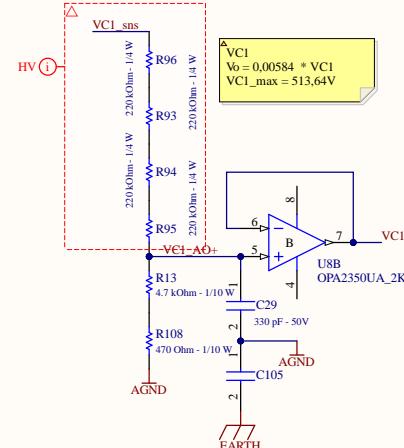
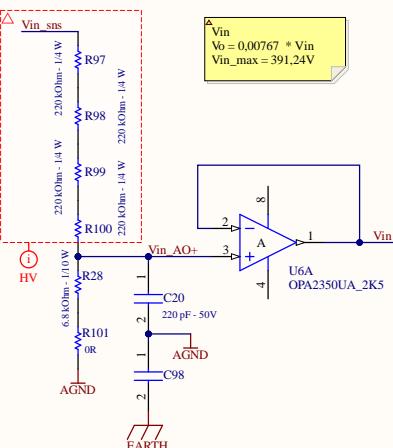
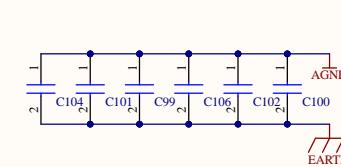
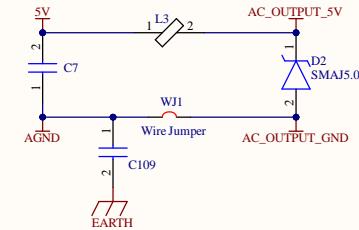
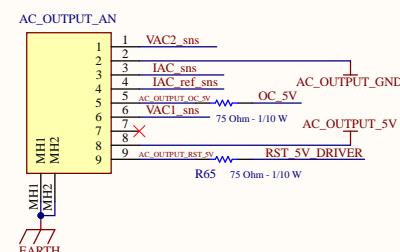
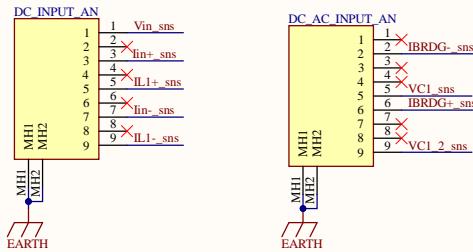


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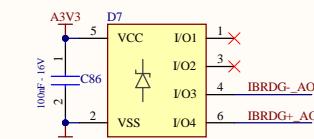
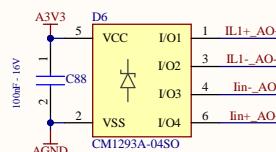
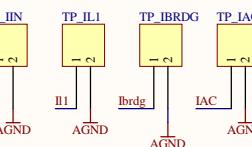
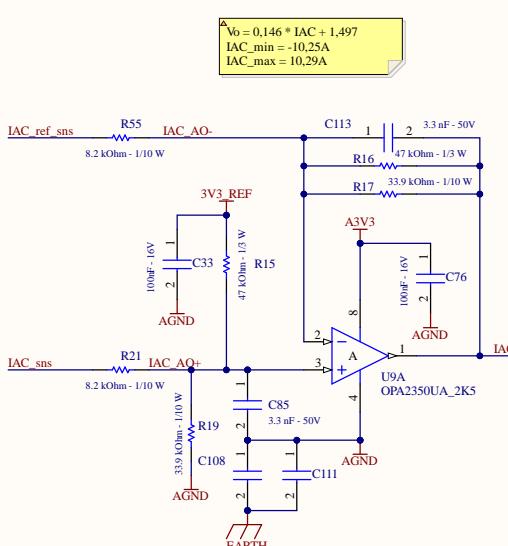
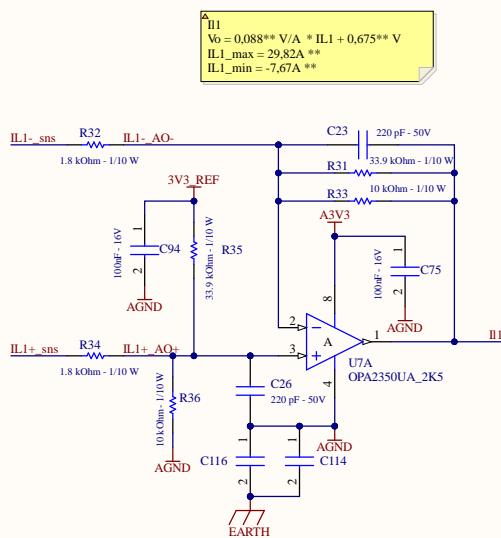
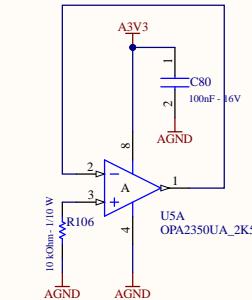
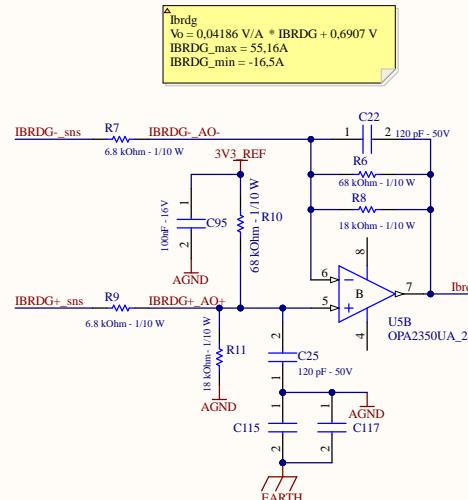
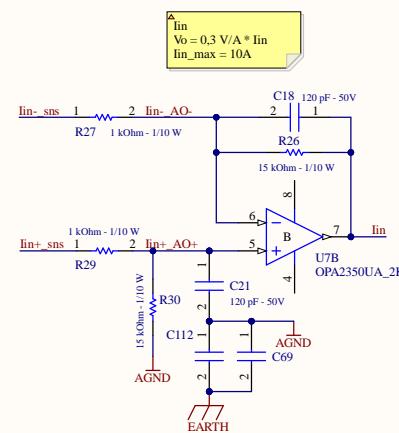
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Title **CAN**

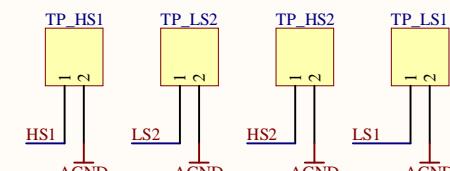
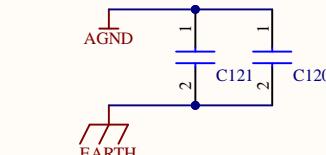
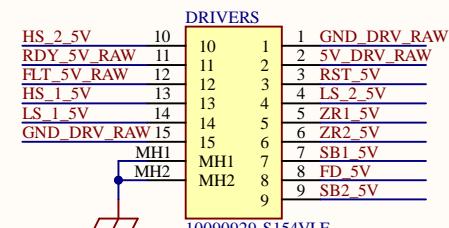
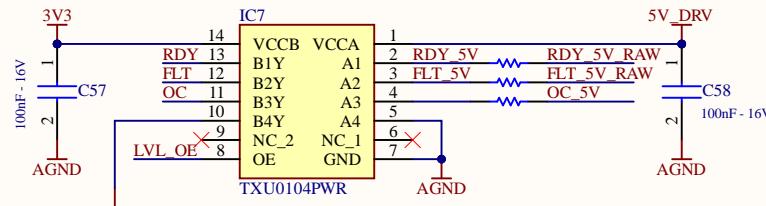
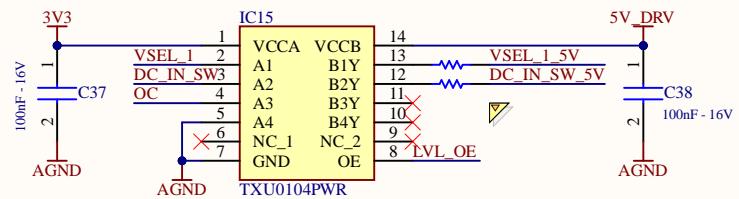
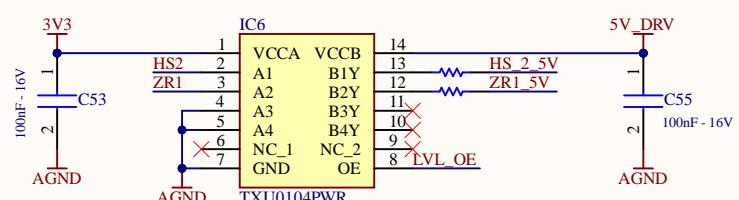
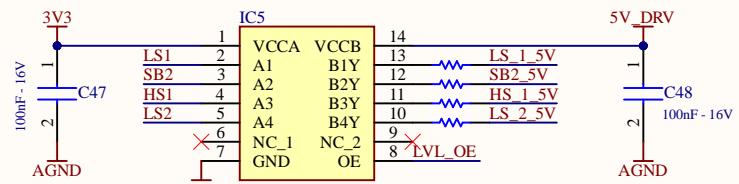
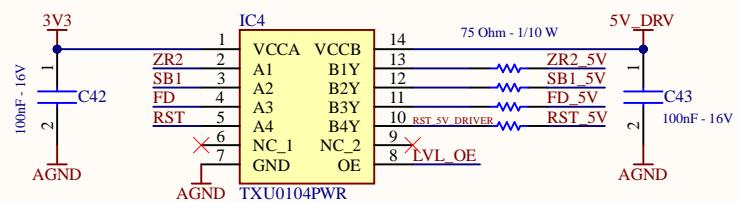
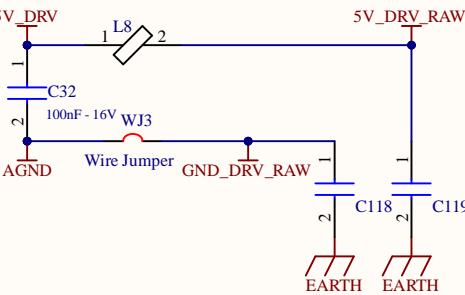
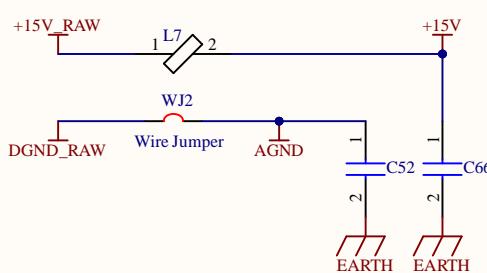
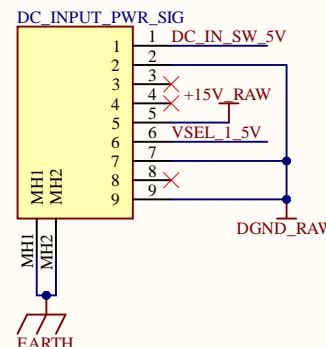
Size: A4	Number: 25	Revision: R8	Drawn by: Juan Tinazzo
Project: ControlBoard.PjPcb		Sheet 3 of 7	Company: TM
File: CAN.SchDoc			

Title **Analogicas Tension**

Size: A3 Number: CB_AT Revision: R8 Drawn by: Juan Tinazzo
 Project: ControlBoard.PjrPcb Sheet 4 of 7 Company: TM
 File: Analogicas_Tension.SchDoc

Title **Analogicas Corriente**

Size: A3	Number: CB_AC	Revision: R8	Drawn by: Juan Tinazzo
Project: ControlBoard.PjrPcb		Sheet 5 of 7	Company: TM
File: Analogicas_Corriente.SchDoc			



Title *Driver Signals*

Size: A4	Number: CB_DRV	Revision: R8	Drawn by: Juan Tinazzo
Project: ControlBoard.PrtPcb		Sheet 6 of 7	Company: TM
File: DriverSignals.SchDoc			

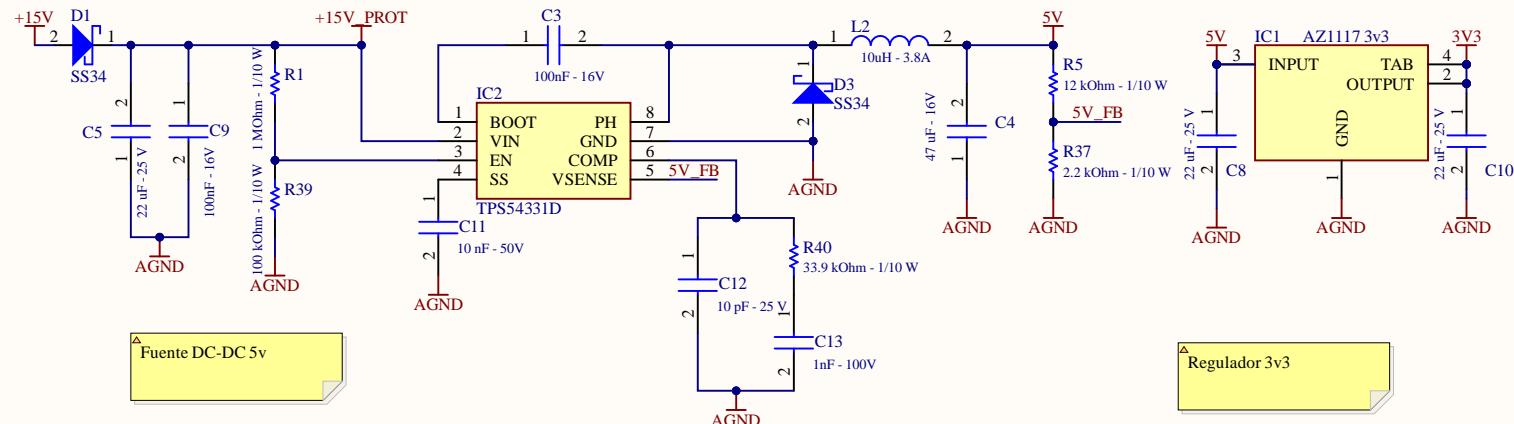
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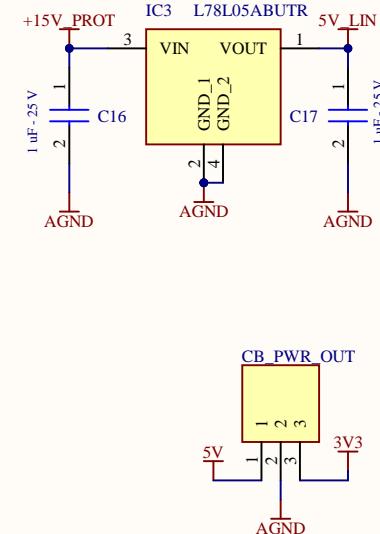
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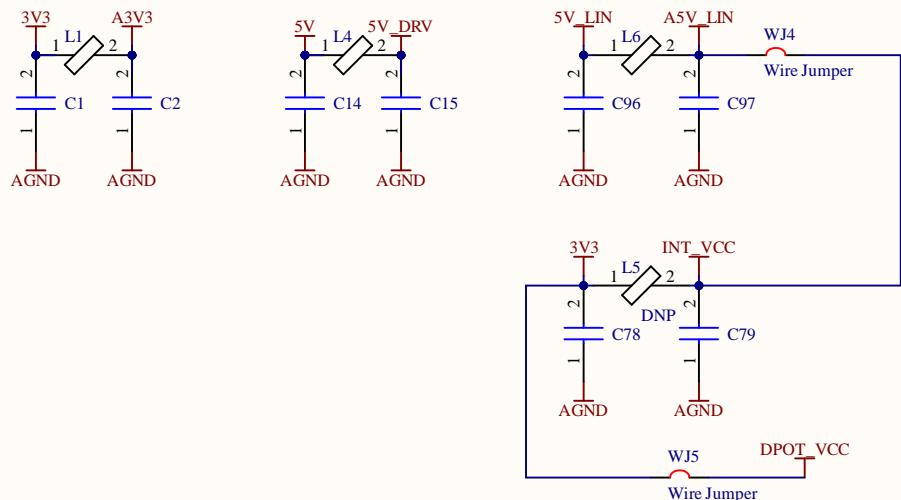
A



B



C



D

Title **Power Supply**

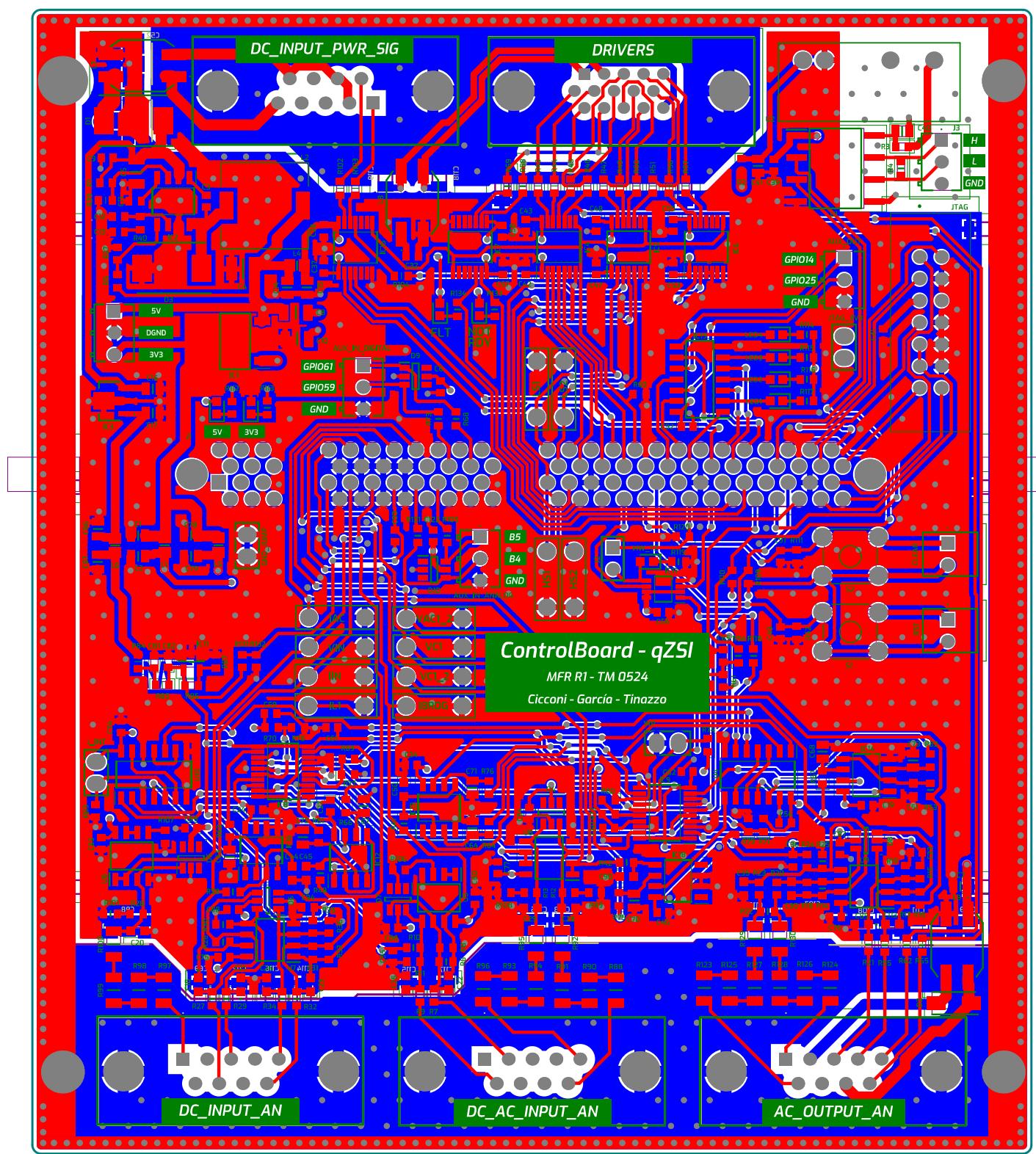
Size: A4	Number: CB_PSU	Revision: R8	Drawn by: Juan Tinazzo
Project: ControlBoard.PnjPcb		Sheet 7 of 7	Company: TM
File: PSU.SchDoc			

1

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4



Description	Manufacturer_Name	Manufacturer_Part_Number	Value	Quantity	Designator
Capacitor	TAIYO YUDEN	EMK107B7104KA-T	100nF - 16V	50	C1, C6, C9, C19, C24, C27, C31, C32, C33, C34, C36, C37, C38, C39, C42, C43, C46, C47, C48, C49, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C65, C74, C75, C76, C77, C80, C81, C82, C83, C84, C86, C87, C88, C89, C91, C92, C93, C94, C95, C122
Resistor	Vishay	CRCW060310K0FKEA	10kOhm - 1/10 W	36	R33, R56, R52, R60, R61, R63, R64, R66, R67, R69, R70, R71, R72, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R106, R107, R111, R120, R122, R132, R135, R136, R137, R138, R139, R140, R141
Capacitor	SAMSUNG	CL21B105KAFNNNG	1uF - 25 V	21	C1, C2, C7, C14, C15, C16, C17, C40, C41, C63, C64, C67, C68, C70, C71, C72, C73, C78, C79, C96, C97
Resistor	Vishay	CRCW060375R0FKEAC	75 Ohm - 1/10 W	21	R43, R44, R45, R46, R47, R49, R50, R51, R56, R57, R58, R59, R62, R65, R68, R73, R102, R103, R104, R105, R121
Resistor	Vishay	CRCW1206220KFKEA	220 kOhm - 1/4 W	20	R69, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R123, R124, R125, R126, R127, R128, R129, R130
Capacitor	KEMET	C1206C102KGRACAUTO	1nF - 2000V	16	C49, C99, C100, C101, C102, C104, C106, C112, C114, C115, C116, C117, C118, C119, C120, C121
Punta Prueba Osciloscopio	PCB	TP		12	TP_H51, TP_H52, TP_JAC, TP_IBRDG, TP_IIN, TP_IJ1, TP_LS1, TP_LS2, TP_VAC, TP_VC1, TP_VC1_2, TP_VIN
Resistor	Vishay	CRCW06031K00FKEAC	1kOhm - 1/10 W	11	R84, R27, R29, R113, R114, R115, R116, R117, R119, R133, R134
Capacitor	KEMET	LDECD0110K45M00	1nF - 1000V	10	C52, C56, C98, C103, C105, C107, C108, C109, C110, C111
Resistor	Vishay	CRCW060315K0FKEAC	15 kOhm - 1/10 W	8	R14, R25, R26, R30, R38, R41, R42, R48
Ferrite Bead	Wurth Elektronik	78279220601	Núcleos de ferrita WE-IMPSA EMI 6000ohms 2.1A 80mOhms	7	L1, L3, L4, L5, L6, L7, L8
LED	Wurth Elektronik	1500608575000	Led Rojo 0603	7	F1LT, HW, T2, LED1, LED2, LED3, LED4, RDY_ERR
TVS Diode (Bi-directional), TVS Diode (Uni-directional)	onsemi, Diodes Inc.	D5V0P4UR6SO-7	4CH - Unidireccional - 3.3V - 800mW	7	D4, D5, D6, D7, D8, D9, D10
Capacitor	TDK-Lambda, KEMET	CGA3E2XTR1H103K080AA	10 nF - 50V	6	C11, C44, C45, C50, C90, C123
Resistor	Vishay	CRCW060318K0FKEA	19 kOhm - 1/10 W	6	R11, R18, R20, R23, R24
Capacitor	KEMET	C0603C22U5HACAUUTO	220pF - 50V	5	C20, C23, C26, C30, C35
Connector	Amphenol Communications Solutions	76384-303LF	Alojamientos de cables y cabecera 3P VERT	5	AUX_IN_ANALOG, AUX_IN_DIGITAL, AUX_OUT, CB_PWR_OUT, J3
Integrated Circuit	Texas Instruments	LMV393DR4	Comparadores analógicos Dual Gen Purp	5	IIC12, IIC13, IIC14, IC16, IC18
Integrated Circuit	Texas Instruments	OPA2350UA/2K5	AO de alta velocidad, fuente única, rail to rail	5	U5, U6, U7, U8, U9
Integrated Circuit	Texas Instruments	TXU0104PW	Four channel unidirectional level shifter	5	IIC4, IIC5, IC6, IC7, IC15
Resistor	Vishay	CRCW060339K0FKEA	33.9 kOhm - 1/10 W	5	R17, R19, R31, R33, R40
Capacitor	KEMET	C0603C121U5GAC7411	120pF - 50V	4	C18, C21, C22, C25
Connector	Amphenol Communications Solutions	L771SEH0950L2RM8	Conectores estándar subminiatura D D-SUB	4	AC_OUTPUT_AN, DC_AC_INPUT_AN, DC_INPUT_AN, DC_INPUT_PWR, SIG
Resistor	Vishay	CRCW06034K70FKEAH	4.7 kOhm - 1/10 W	4	R13, R53, R87, R131
Resistor	Vishay	CRCW0603100RFKEBC	100 Ohm - 1/10 W	4	R54, R84, R85, R118
Capacitor	SAMSUNG	OL31A226KAHNNNNE	22 uF - 25 V	3	C5, C8, C10
Header, 2-Pin		Header 2.54 mm 2P	2P	3/2, J_1NT, WP	
Resistor	Vishay	CRCW0603K80FKEA	6.8 kOhm - 1/10 W	3	R7, R9, R28
Capacitor	KEMET	C0603C121U5GAC7411	3.3 nF - 50V	2	C85, C113
Capacitor	KEMET	C0603C331U5GACAUUTO	330 pF - 50V	2	C28, C29
Connector	TE Connectivity	3-647050-2	Button	2	CLEAR_BTN_EXT, RST_BTN_EXT
High Speed CMOS Logic Triple 3-Input OR Gates, D0014A, LARGE T&R		CD74HC407M#6	Puertas lógicas Triple 3-Input OR	2	U4, U10
Integrated Circuit	Microchip	MCP4461-503E/ST	Circuitos integrados de potenciómetros digitales 50k I2C quad ch 8bit nonvolatile memory	2	IIC8, IIC9
LED	Wurth Elektronik	150060GST5000	Led Verde 0603	2	3V3_ON, 5V_ON
Resistor	Panasonic	ERJ-503F6802V	68 kOhm - 1/10 W	2	R6, R10
Resistor	TE Connectivity	CRG0603F8K2	8.2 kOhm - 1/10 W	2	R21, R55
Resistor	Vishay	CRCW06031K80FKEAC	1.8 kOhm - 1/10 W	2	R32, R34
Resistor	Vishay	CRCW06032K20FKEA	2.2 kOhm - 1/10 W	2	R37, R112
Resistor	Vishay	CRCW06035K60FKEA	5.6 kOhm - 1/10 W	2	R109, R110
Resistor	Vishay	CRCW060310RFKEAH	10 Ohm - 1/10 W	2	R2, R3
Resistor	Vishay	CRCW060347K0FKEAH	47 kOhm - 1/3 W	2	R15, R16
Resistor	Vishay	CRCW0603470RFKEA	470 Ohm - 1/10 W	2	R69, R108
Schottky Diode	Taiwan Semiconductor	SS534	3A - 40V	2	D1, D3
Switch, tact, 5.0mm stem		STD_Button	6.5x5.5mm: 5.0mm stem	2	S1, S2
		DCH01	Miniature Isolated DC/DC Converters	1	I2
Capacitor	KEMET	O0903C100K3GACTU	10 pF - 25 V	1	C12
Capacitor	KEMET	O0903C221U5HACAUUTO	3.3 nF - 50V	1	C51
Capacitor	Murata Electronics	GRM42EC01C474KE15K	47 uF - 16V	1	C4
Capacitor	TDK-Lambda	CGA3E2XTR2A102K080AA	1nF - 100V	1	C13
CONN, 100 pin DIMM socket - Molex 0876301001		0876301001	Conectores DIMM	1	J1
Connector	Amphenol Communications Solutions	10090929-S154VLF	Conectores de alta densidad subminiatura D 15P	1	DRIVERS
Connector	SAMTEC	TST-107-01-G-D-06	Alojamientos de cables y cabecera Shrouded PCB Headers, 0.100" pitch	1	JTAG
Header, 2-Pin		Header 2.54 mm 2P	Clip	1	GND_JUMP
Header, 2-Pin		Header 2.54 mm 2P	Clip	1	JTAG_3V3
Inductor	Sumida	ODRH1048NP-100NC	10uH - 3.8A	1	L2
Integrated Circuit	Diodes Inc.	AZ1117CH-3.3TRG1	Regulador Lineal 3.3 V	1	IIC1
Integrated Circuit	STMicroelectronics	L78L05ABUTR	Reguladores de tensión lineal 5.0V 0.1A	1	IIC3
Integrated Circuit	Texas Instruments	ISO10500DUBR	Alisladores digitales Iso 5V CAN Xcvr	1	IUI
Integrated Circuit	Texas Instruments	SN74LV2C27G4DCTR6	Single Positive-Edge-Triggered D- Type Flip-Flop	1	IIC17
Integrated Circuit	Texas Instruments	TL431UBEDB#R01	Referencias de voltaje	1	IIC11
Integrated Circuit	Texas Instruments	TPS54331D	Reguladores de voltaje de comunicación 3A 28V In Step Down	1	IIC2
Integrated Circuit	Toshiba	74HC04D(BJ)	Inversores CMOS logic IC series	1	IIC19
Resistor	Vishay	CRCW06031K50FKEA	1.5 kOhm - 1/10 W	1	R86
Resistor	Vishay	CRCW06031M00RFKEA	1MOhm - 1/10 W	1	R1
Resistor	Vishay	CRCW0603K90FKEA	3.9 kOhm - 1/10 W	1	R12
Resistor	Vishay	CRCW060312K0FKEA	12 kOhm - 1/10 W	1	R5
Resistor	Vishay	CRCW060327K0FKEAC	27 kOhm - 1/10 W	1	R22
Resistor	Vishay	CRCW0603100KFKEAC	100 kOhm - 1/10 W	1	R39
Resistor	Vishay	CRCW0603000020EBC	0R	1	R101
TVS Diode (Uni-directional)	UITTEL FUSE	SMA5.0A	1CH - Unidireccional - 5V - 3.3 W	1	I2