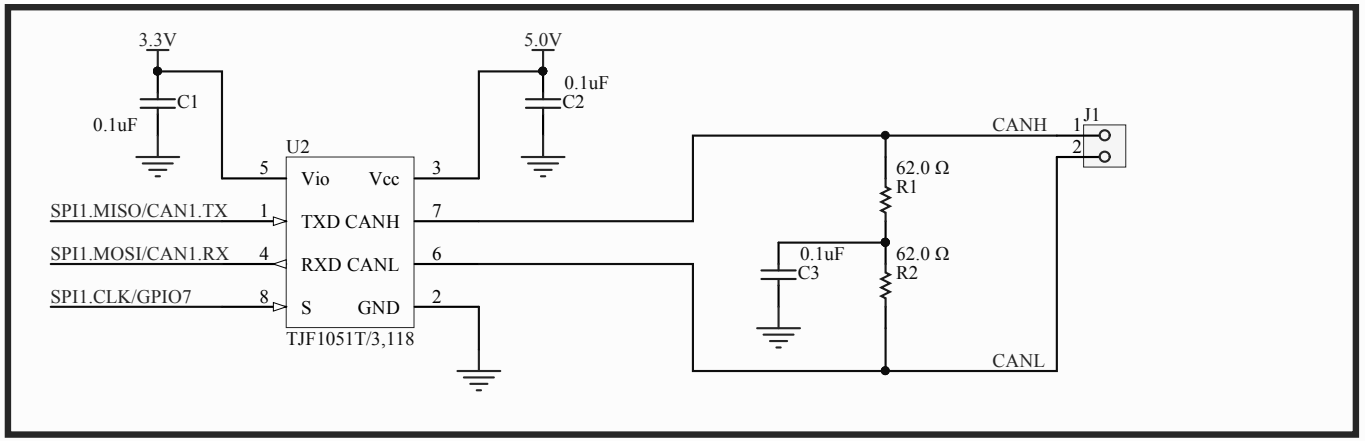
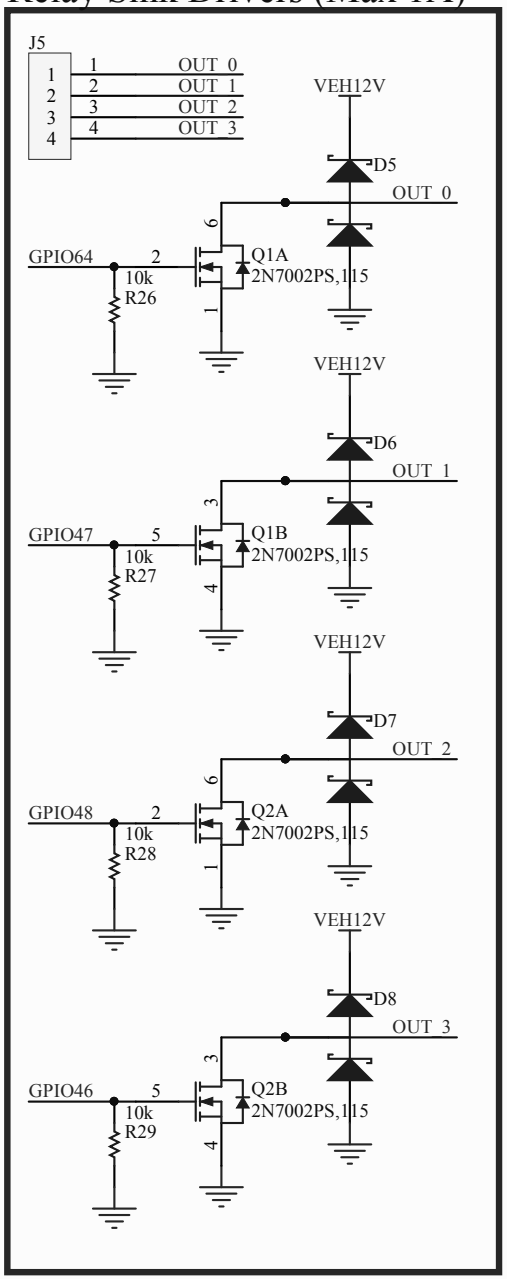
Comment	Description	Designator	Footprint	LibRef	Quantity
Walsin Technologies 0603B104K500CT	Multilayer Ceramic Capacitor, 0.1 F, 10%, X7R, 50 V, 0603 [1608 Metric]	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	PCB-xa8iw5fabk20w47h075k-1	CMP-be387595950561ff-2	12
Yageo CC0805ZRY5V9BB104	CAP CER 0.1UF 50V Y5V 0805	C13	PCB-126764-1	CMP-123655-5	1
Fairchild Semiconductor MMBD1503	Diode Small Signal Switching 200V 0.2A 3-Pin SOT-23 T/R	D1, D2, D3, D4	PCB-dj2r2up874gauds03gor-1	CMP-466f8f606d4b99a8-4	4
NXP Semiconductors BAT54S,215	BAT54 Series Schottky Barrier Diode, 30 V, 250 mW, -55 to 150 degC, 3-Pin SOT23 (TO-236AB), RoHS, Tape and Reel	D5, D6, D7, D8	NXP-SOT23_M	CMP-810622-3	4
Molex 90120-0762	2.54mm (.100") Pitch C-Grid III? Header, Single Row, Vertical, 1 Circuits, Gold (Au) Plating	J1, J2, J3, J4	PCB-55llon6gpk2h6a06nz0l-1	CMP-8fae46aeaafe5069-36	4
TE Connectivity / AMP 5-520314-4	Wire-To-Board Connector, AMPMODU Mod II Series, Through Hole, Header, 4, 2.54 mm	J5	PCB-2e32bpzlb7s96t5zrzh4-1	CMP-5c1097d27ab083d7-6	1
FCI 76385-318LF	Conn Shrouded Header HDR 36 POS 2.54mm Solder ST Thru-Hole Tube	P1, P2	PCB-1g6bnwgf1b0vscoog6yx-1	CMP-c94902193a16168e-1	2
2N7002PS,115	N-Channel Trench MOSFET, 60 V, 0.32 A, -55 to 150 degC, 6-Pin SOT363, Tape and Reel	Q1, Q2	NXP-SOT363_N	CMP-3017182-2	2
Panasonic ERJ-3EKF62R0V	Thick Film Resistors - SMD 0603 62.0ohms 1% Tol	R1, R2	RESC1608X55X30LL15T15	CMP-3685848-2	2
Vishay Dale CRCW1206604RFKEAHP	RES SMD 604 OHM 1% 1/2W 1206	R3, R4, R6, R8, R16, R17, R19, R21	RESC3116X65X50ML20T20	CMP-1941836-2	8
Res1	Res Thick Film 1.6 x 0.8 mm 100K Ohm 1% 0.1W(1/10W) 100ppm/ C Molded SMD Punched Carrier T/R, Res Thick Film 1.6 x 0.8 mm 100K Ohm 1% 0.1W(1/10W) 100ppm/ C Molded SMD Punched Carrier T/R, Res Thick Film 1.6 x 0.8 mm 100K Ohm 1% 0.1W(1/10W) 100ppm/ C Molded SMD Punched Carrier T/R, Resistor Thick Film 0603 10k Ohm 1% 1/10 Watt ±100ppm °C Surface Mount Punched Carrier Tape and Reel, Resistor Thick Film 0603 10k Ohm 1% 1/10 Watt ±100ppm °C Surface Mount Punched Carrier Tape and Reel, Resistor Thick Film 0603 10k Ohm 1% 1/10 Watt ±100ppm °C Surface Mount Punched Carrier Tape and Reel,	R5, R7, R9, R13, R13, R14, R15, R18, R20, R24, R25, R26, R27, R28, R29, R34, R35	RESC1608X06M	CMP-3654853-10, CMP-3654853-10, CMP-3654853-10, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-3654853-10, CMP-3654853-10, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22, CMP-1846091-22	17
Panasonic ERA-3AED432V	Thin Film Resistors - SMD 0603 4300ohms 25ppm 0.5% Tol	R10, R11, R12, R22, R23	RESC1608X55X30NL20T20	CMP-3722059-2	5
Panasonic ERJ-3GEYJ473V	Thick Film Resistors - SMD 0603 47Kohms 5% Tol	R30, R31	RESC1608X55X30LL15T15	CMP-3655150-2	2
0	RES SMD 0 OHM JUMPER 1/10W 0603	R32, R33	PCB-vghjuybc2rzv8513tm8h-1	CMP-536b9a7387ce8cac-9	2
Recom Power R-78B5.0-2.0	2A DC/DC-Converter 'INNOLINE' SIP3 reg; V. In: 6.5-32; V. Out: 5.0; mA. Out: 2000	U1	PCB-l69b53xrp7y4prqjnll8-1	CMP-deeb134819ae012c-5	1
TJF1051T/3,118	TJF1051 Series 5.5 V 5 Mbps Surface Mount High-Speed CAN Transceiver - SOIC-8	U2	MAXM-S8+4_L	CMP-4b038317f93a94c4-1	1
CAT24C256WI-GT3	IC EEPROM 256KBIT	U3	PCB-978724-2	CMP-978724-4	1

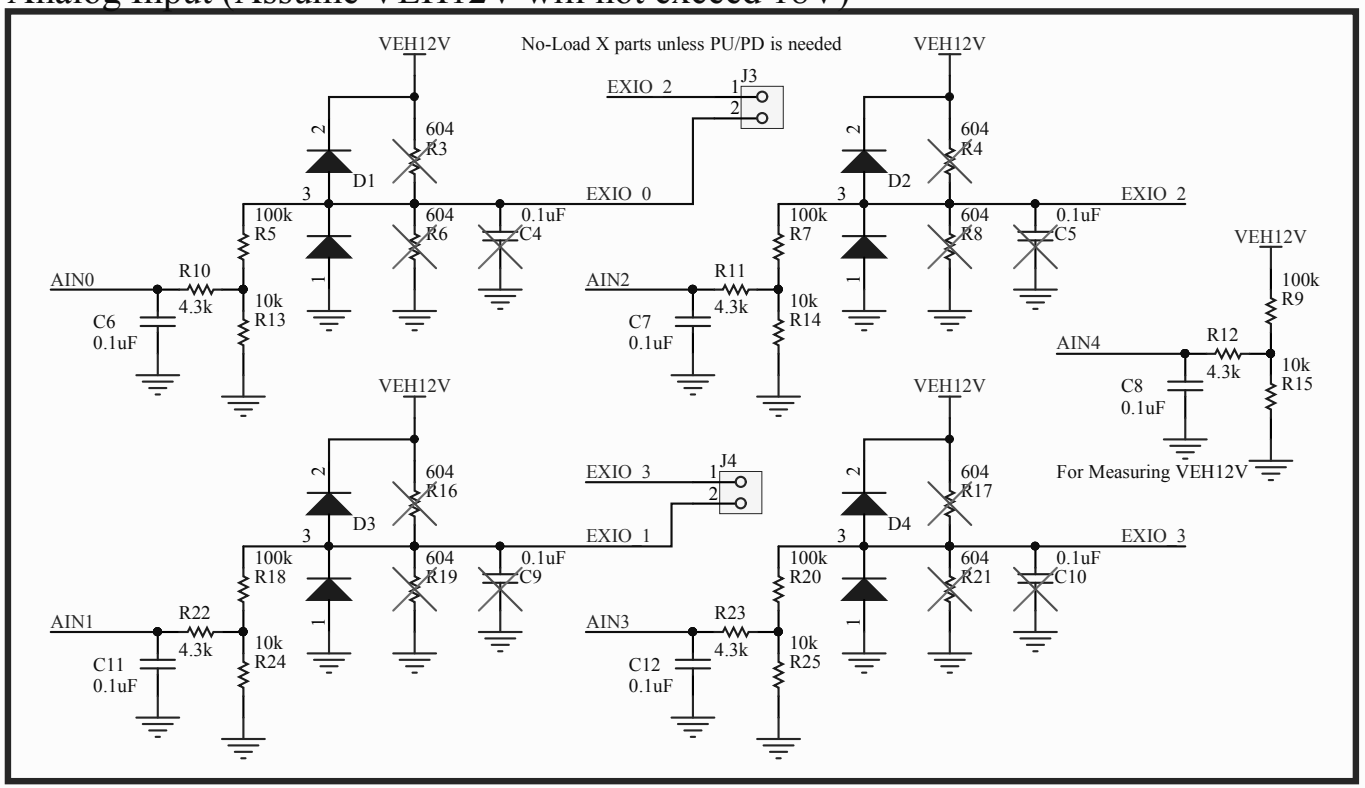
CAN Tranciever



Relay Sink Drivers (Max 1A)

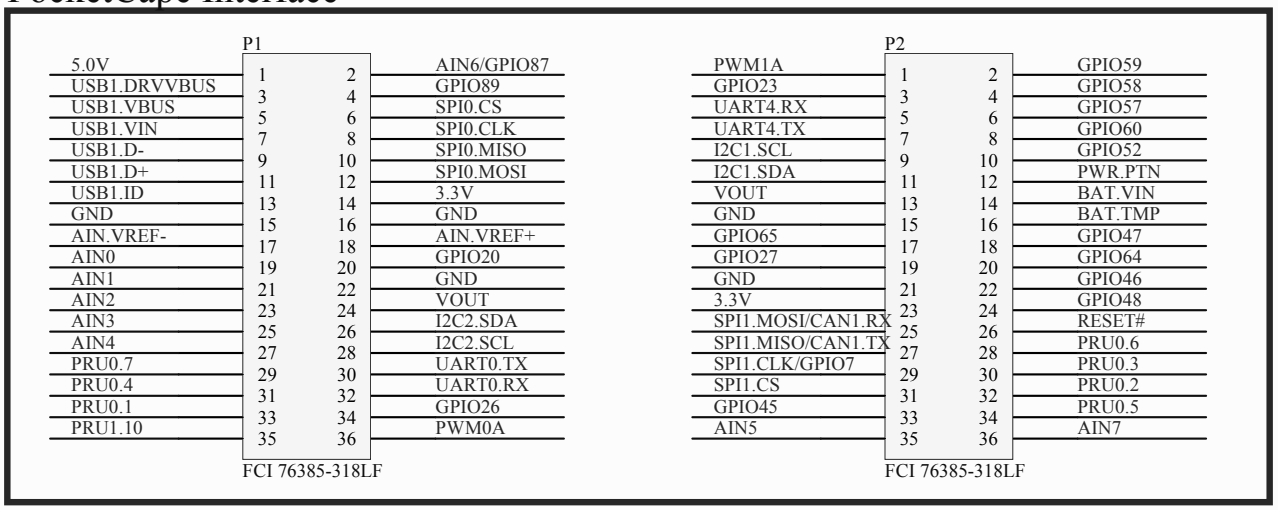


Analog Input (Assume VEH12V will not exceed 18V)

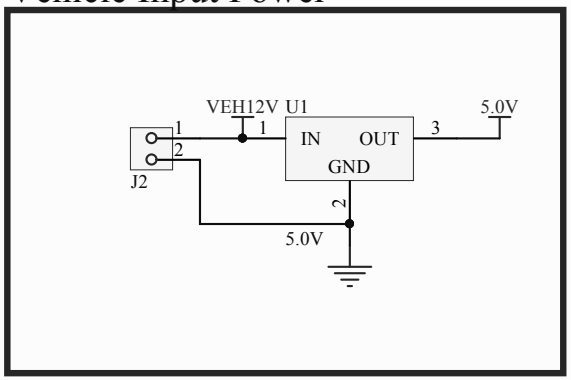


Title: Pocket Beagle Automotive Cape		
Size: A	Number:	Revision: 1.0
Date: 1/26/2019		Sheet of 2
File: Sheet1.AutomotiveIO.SchDoc		Drawn By: Miller

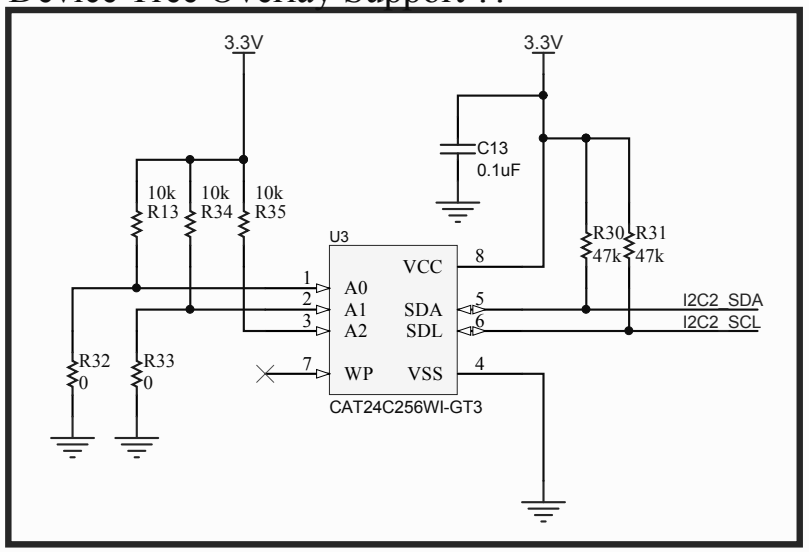
PocketCape Interface



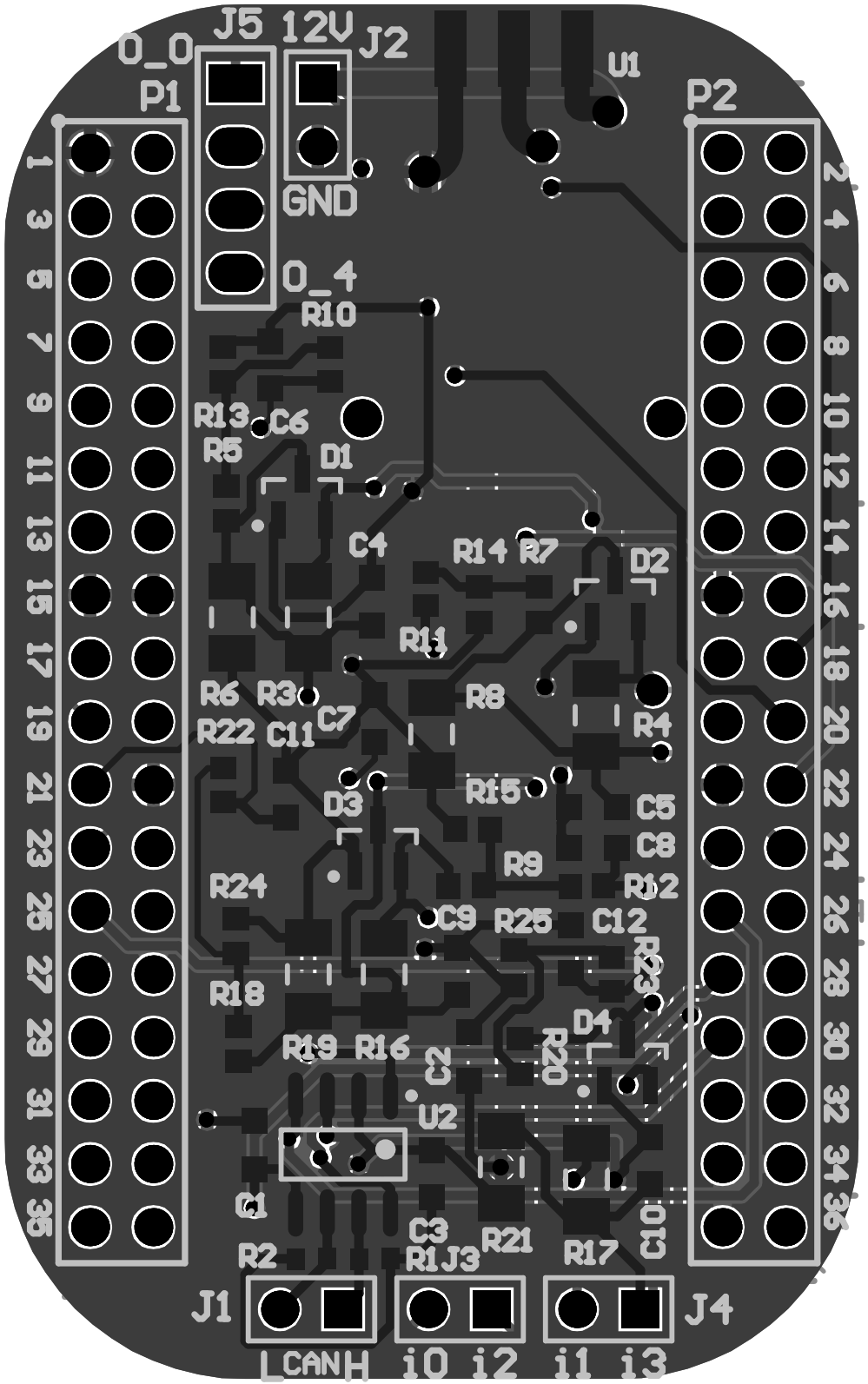
Vehicle Input Power

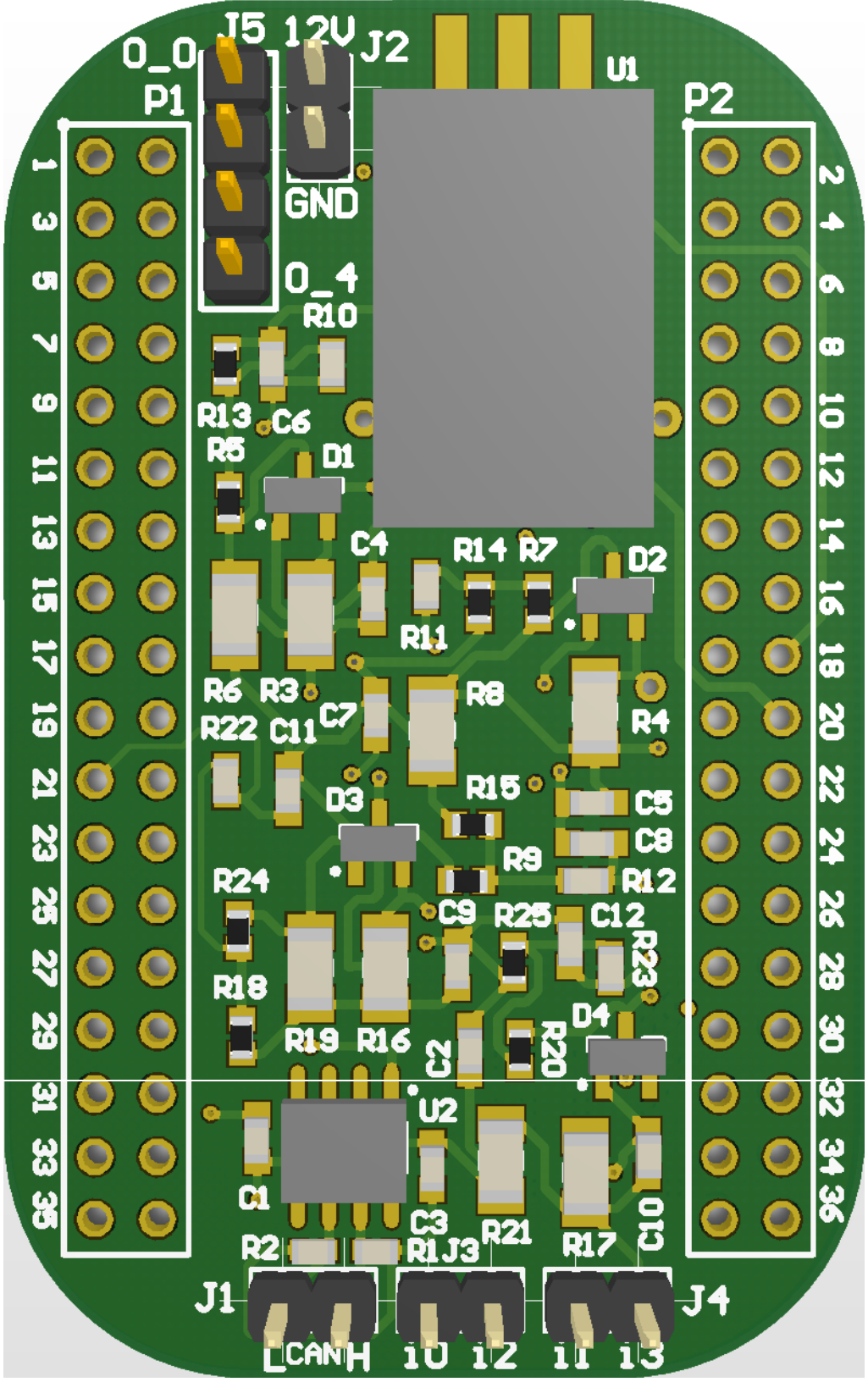


Device Tree Overlay Support ??



Title: Pocket Beagle Automotive Cape		
Size: A	Number:	Revision: 1.0
Date: 1/26/2019		Sheet of 2
File: Sheet1.MainIO.SchDoc		Drawn By: Miller


J5
12V
J2
U1
O_0
P1
P2
GND
O_4
R10
R13
C6
R5
D1
C4
R14
R7
D2
R11
R6
R3
C7
R8
R4
R22
C11
D3
R15
C5
C8
R9
R12
R24
C9
R25
C12
R23
R18
D4
R19
R16
C2
R20
U2
Q1
C3
R21
R17
C10
R2
R1
J3
J1
J4
CAN_L
CAN_H
i0
i2
i1
i3


J5
12V
J2
U1
O_0
P1
P2
GND
O_4
R10
R13
C6
R5
D1
C4
R14
R7
D2
R11
R6
R3
C7
R8
R4
R22
C11
D3
R15
C5
C8
R9
R12
R24
C9
R25
C12
R23
R18
D4
R19
R16
C2
R20
U2
C1
C3
R21
R17
C10
R2
R1
J3
J1
J4
CAN_L
CAN_H
10
12
11
13

Design Rules Verification Report

Filename : C:\ProgramData\Altium\CircuitMaker {E16EADF4-A822-4832-8FAF-288EE79AFA6A}\Projects\E5E36FD3-2CD8-4D85-81A3-8F768E1EFB3F\16cbb6d9-1a7f-4af0-ad25-b1317df75c25\PCB1.CMPcbDoc

Warnings 0
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Net Antennae (Tolerance=0mil) (All)	0
Clearance Constraint (Gap=5mil) (All),(All)	0
Width Constraint (Min=10mil) (Max=40mil) (Preferred=15mil) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ((All))	0
Hole Size Constraint (Min=8mil) (Max=100mil) (All)	0
Height Constraint (Min=0mil) (Max=1000mil) (Prefered=500mil) (All)	0
Hole To Hole Clearance (Gap=10mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.5mil) (All),(All)	0
Silk To Solder Mask (Clearance=0mil) (IsPad),(All)	0
Silk to Silk (Clearance=1mil) (All),(All)	0
Silk primitive without silk layer	0
Unpoured Polygon (Allow unpoured: False)	0
Total	0