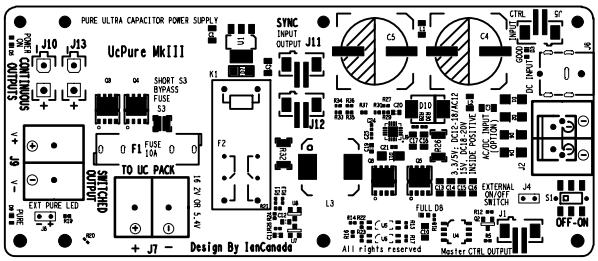
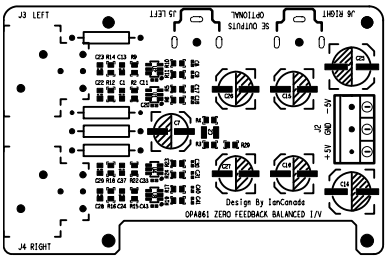
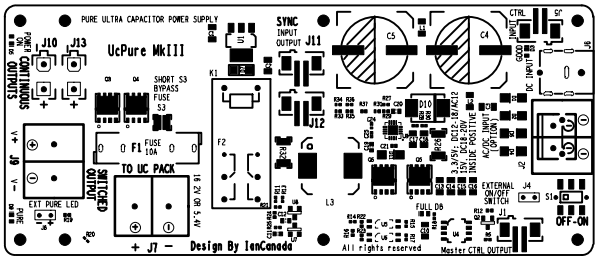

PURE ULTRA CAPACITOR POWER SUPPLY
UcPure MkIII
SYNC
INPUT
OUTPUT
J11
J10
J13
SWITCHED OUTPUTS
NO POWER
SHORT S3 BYPASS FUSE S3
F1 FUSE 10A
TO UC PACK
SWITCHED OUTPUT
EXT PURE LED
J7
Design By IanCanada
All rights reserved
Master CTRL OUTPUT
EXTERNAL ON/OFF SWITCH
OFF-ON
AC/DC INPUT (OPTION)
DC INPUT
CTRL INPUT
J12
J4
S1


J3 LEFT
J4 RIGHT
J5 LEFT
J6 RIGHT
SE OUTPUTS
OPTIONAL
Design By IanCanada
OPA861 ZERO FEEDBACK BALANCED I/V
-5V
GND
+5V


PURE ULTRA CAPACITOR POWER SUPPLY
UcPure MkIII
SYNC
INPUT
OUTPUT
J11
J10
J13
SWITCHED OUTPUTS
NO POWER
SHORT S3 BYPASS FUSE S3
F1 FUSE 10A
TO UC PACK
SWITCHED OUTPUT
EXT PURE LED
J7
Design By IanCanada
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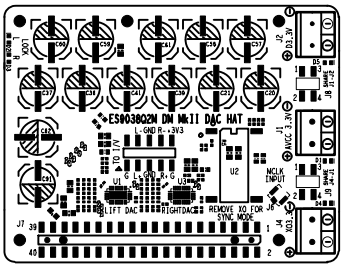
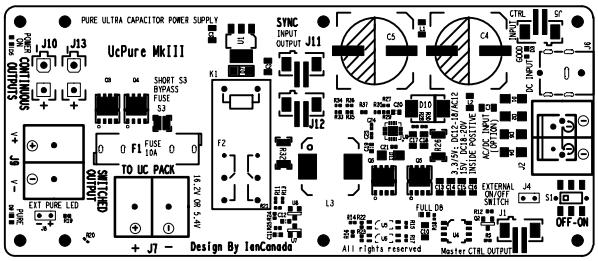
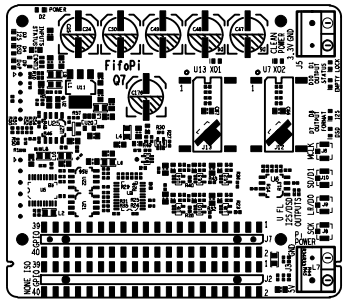
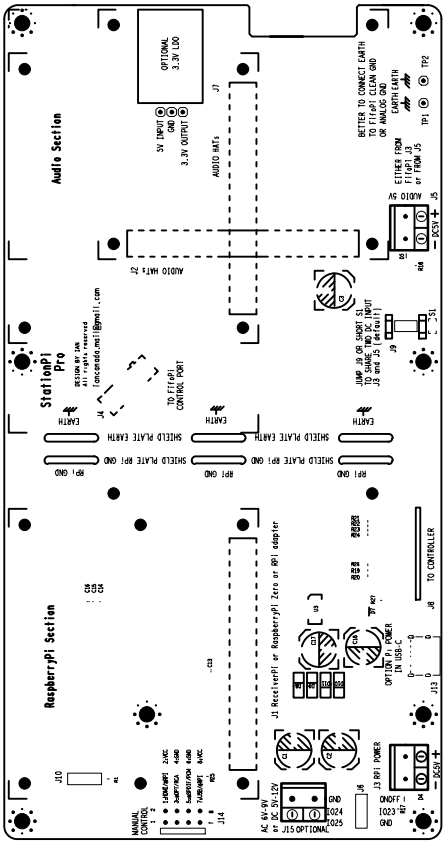
Master CTRL OUTPUT
EXTERNAL ON/OFF SWITCH
OFF-ON
AC/DC INPUT (OPTION)
DC INPUT
CTRL INPUT
J12
J4
S1


ES9038Q2M DN MkII DAC HAT
GND R +3V3
TO I/V
LEFT DAC
RIGHT DAC
REMOVE X0 FOR SYNC MODE
MCLK INPUT
J1
J2
J3
J4
J7
J8


PURE ULTRA CAPACITOR POWER SUPPLY
UcPure MkIII
SYNC
INPUT
OUTPUT
J11
J10
J13
SWITCHED OUTPUTS
NO POWER
SHORT S3 BYPASS FUSE S3
F1 FUSE 10A
TO UC PACK
SWITCHED OUTPUT
EXT PURE LED
J7
Design By IanCanada
All rights reserved
Master CTRL OUTPUT
EXTERNAL ON/OFF SWITCH
OFF-ON
AC/DC INPUT (OPTION)
DC INPUT
CTRL INPUT
J12
J4
S1

J1
J2


FifoPi
Q7
U13 XO1
U7 XO2
I2S INPUTS
I2S OUTPUTS
POWER
J7
J2


Audio Section
OPTIONAL 3.3V LDO
5V INPUT
GND
3.3V OUTPUT
J7
AUDIO HATs
BETTER TO CONNECT EARTH TO FifoPi CLEAN GND OR ANALOG GND
EARTH EARTH
TP1
TP2
EITHER FROM FifoPi J3 or FROM J5
AUDIO 5V
J5
AUDIO HATs J2
JUMP J8 ON SHORT S1 TO SHARE THE DC INPUT J3 and J5 (Optional)
J9
J4
TO FifoPi CONTROL PORT
EARTH
SHIELD PLATE EARTH
RPi GND
StationPi Pro
DESIGN BY IAN
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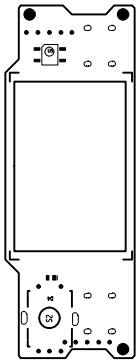
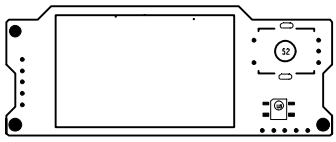
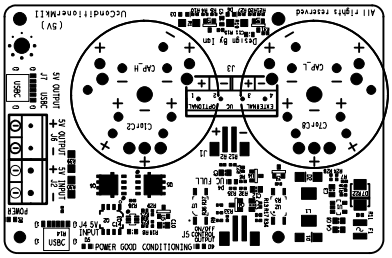
iancanada.ca@gmail.com
RaspberryPi Section
J1 ReceiverPi or RaspberryPi Zero or RPi adapter
OPTION Pi POWER IN USB-C
J3 RPi POWER
ON/OFF
J2
GND
GPIO24
GPIO25
J15 OPTIONAC
AC 6V 9V or DC 5V-12V
MANUAL CONTROL
J14
J8
TO CONTROLLER






UcCond1tionerMkII
(5V)
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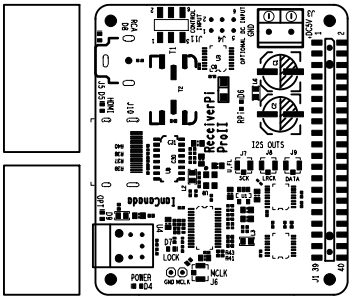
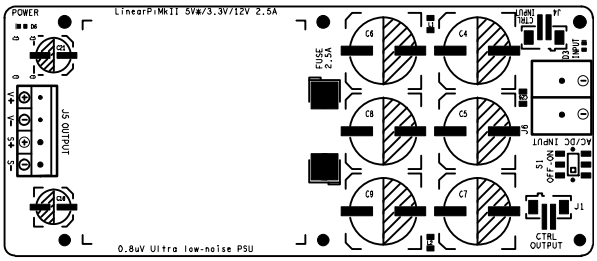
Design by IanCanada
CAP_L
CAP_R
5V OUTPUT
POWER GOOD CONDITIONING
J4 5V INPUT
J5 GROUND
J6 OUTPUT


ReceiverPi
Pro1
RPi Hat
I2S OUTS
I2S INPUT
DAC OUTPUT
DIGITAL OUTPUT
DAC INPUT
DIGITAL INPUT
POWER
MCLK
LOCK
J1
J2
J3
J4
J5
J6
J9
J10


POWER
LinearPi MkII 5V@3.3V/12V 2.5A
FUSE 2.5A
J5 OUTPUT
AC/DC INPUT
CTRL OUTPUT
0.8uV Ultra low-noise PSU