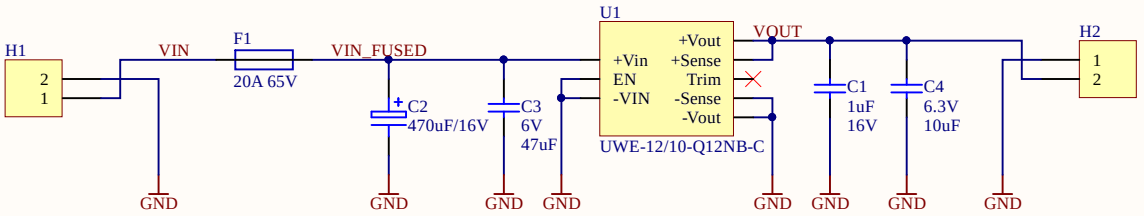
NUC Power Supply



Connect sense pins by output header
Place caps by output header

TODO XT60 footprint

TODO High-voltage caps

TODO High-voltage caps

FUSE FOR 3S
Max current is with 10V input and 10A output.
Approx 90% efficiency gives 13.3A.
Brick datasheet says to rate for twice the full current at the nominal input voltage, so that would be a 25-30A fast blow fuse.
FUSE FOR 4S
Max current is with 13V input and 10A output.
Approx 90% efficiency gives 10.3A, which would be a 20A fuse.
20A fuses are a bit easier to source, so let's call it a 20A fast blow fuse with max 36V.

CAPACITORS
Recommended capacitors are input 33uF, output 1uF // 10uF, ESR < 700mR @ 100kHz.

NOTE
Using an isolated DC-DC converter and connecting the two grounds together is silly but not harmful. I can't find any PoL coverters that do 9-36V in and 12V out.

Title	NUC Power Supply		ECE Department University of Canterbury Christchurch 8041 New Zealand
Drawn by	Matthew Edwards	Revision: 1	
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