HY-controlboard

Generic purpose control board for measurements and control

Version 2.3 PCB Layout

Known issues, date: 2018-10-04:

-CONN4 and U15 are in collision. CONN4 needs manual cut to fit.

-CONN13 and R32 are in collision. CONN13 needs manual cut to fit.

-COINCELL too close to connector EXT1 and EXT2.

-COINCELL at front of J37.

-CONN6 holes loose

-CONN20 holes loose

-EXT2 holes loose

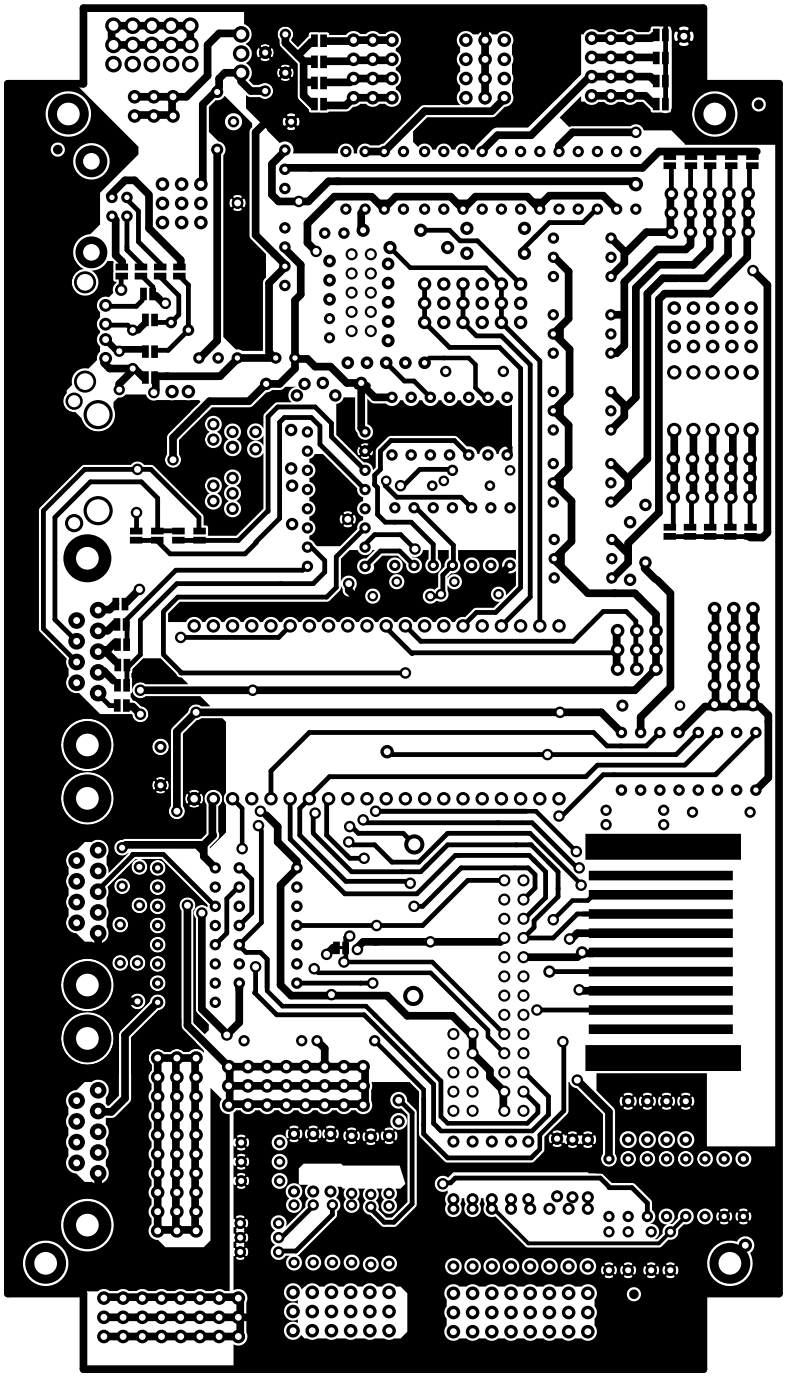
-EXT1 holes loose

-CONN17 holes loose

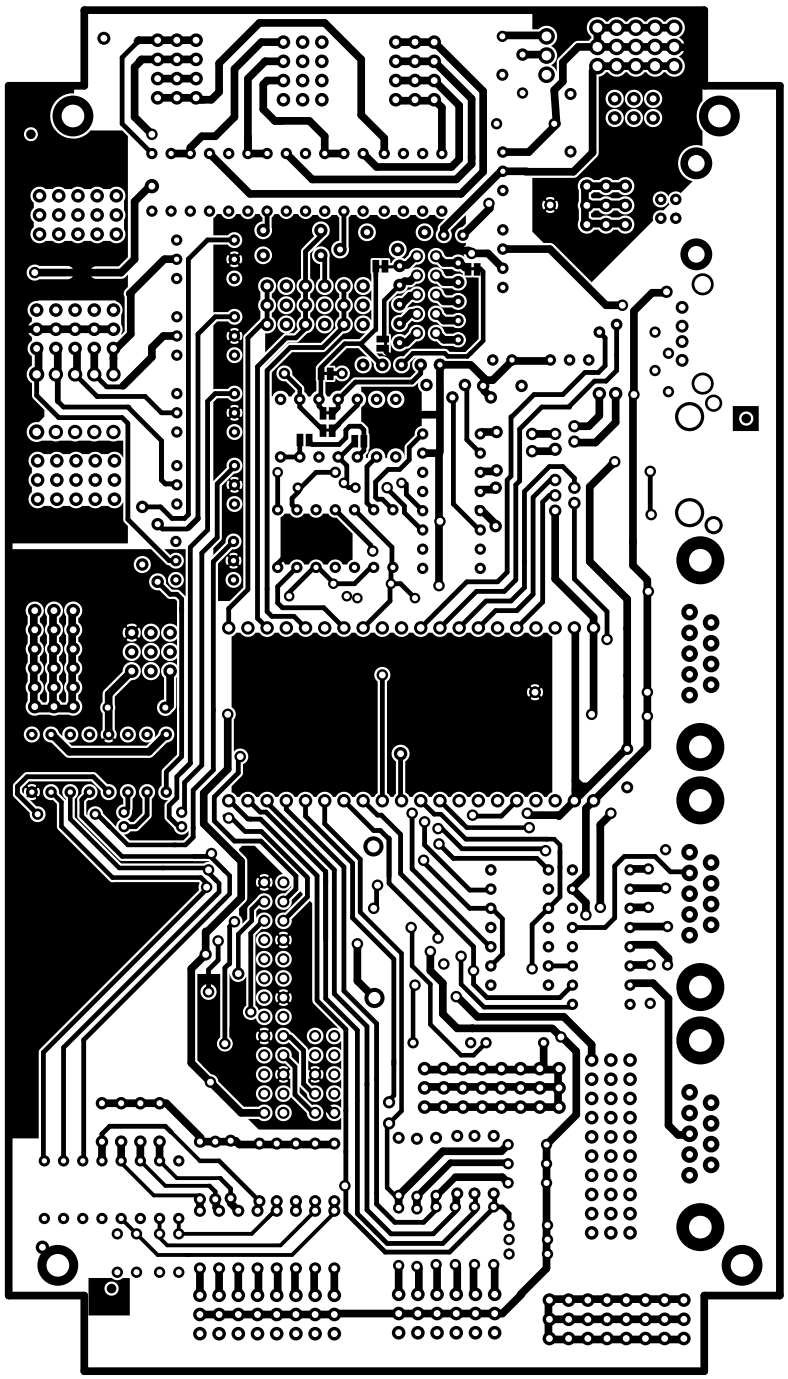
-M1 holes loose

HY controlboard was originally developed at Institute for Atmospheric and Earth System Research / Physics, Faculty of Science, University of Helsinki, Finland

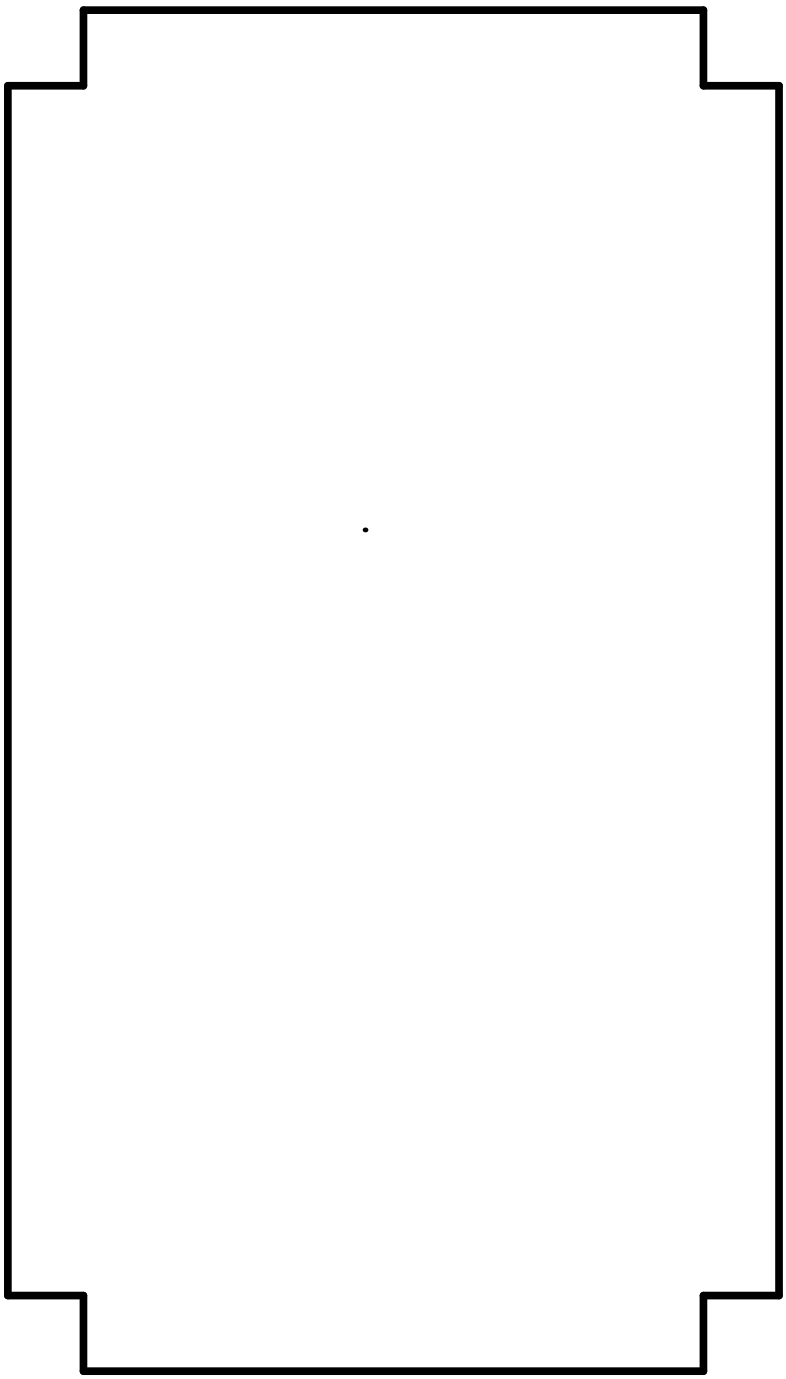
Assistance, experience, and feedback from following persons have been critical in the original work: Erkki Siivola, Lauri Ahonen, Juha Kangasluoma, Pasi Aalto, Markku Kulmala and Tuukka Petäjä.



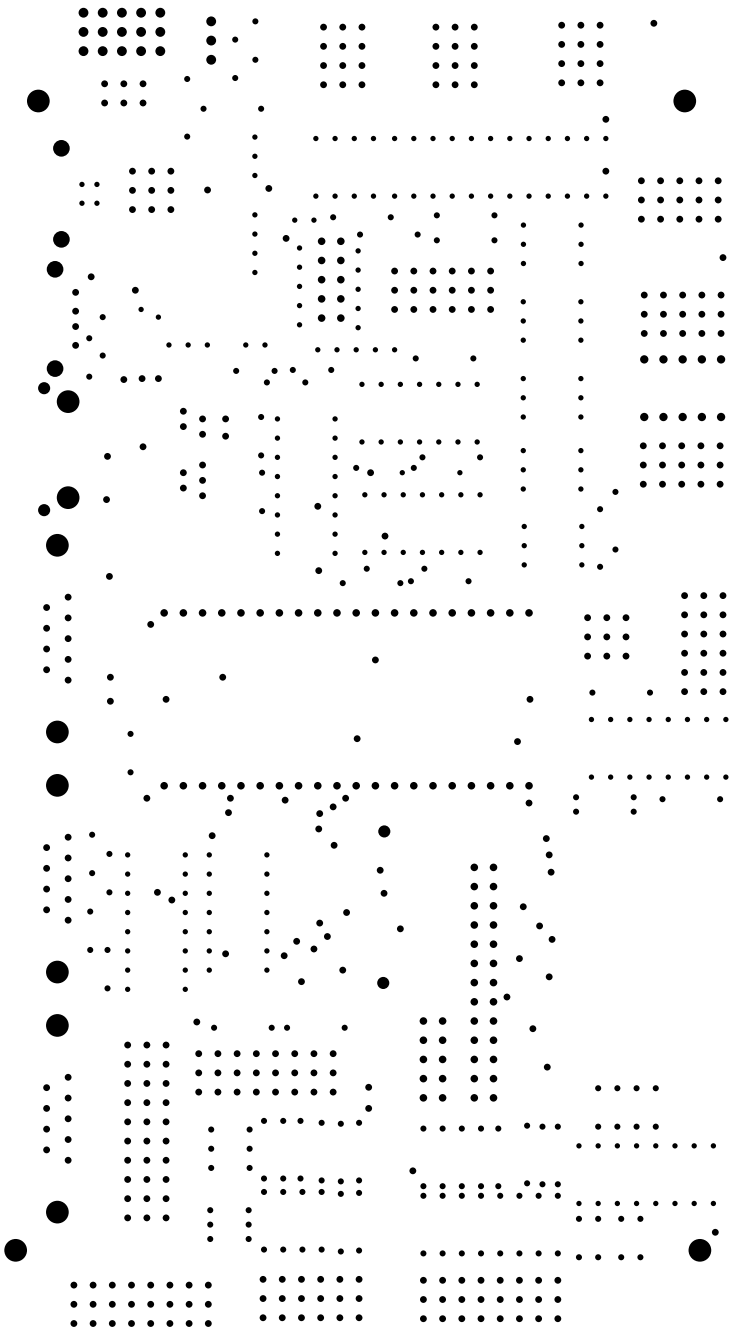
controlboard_2.3, top, scale = 1:1.000
/home/frans/Documents/controlboard.pcb



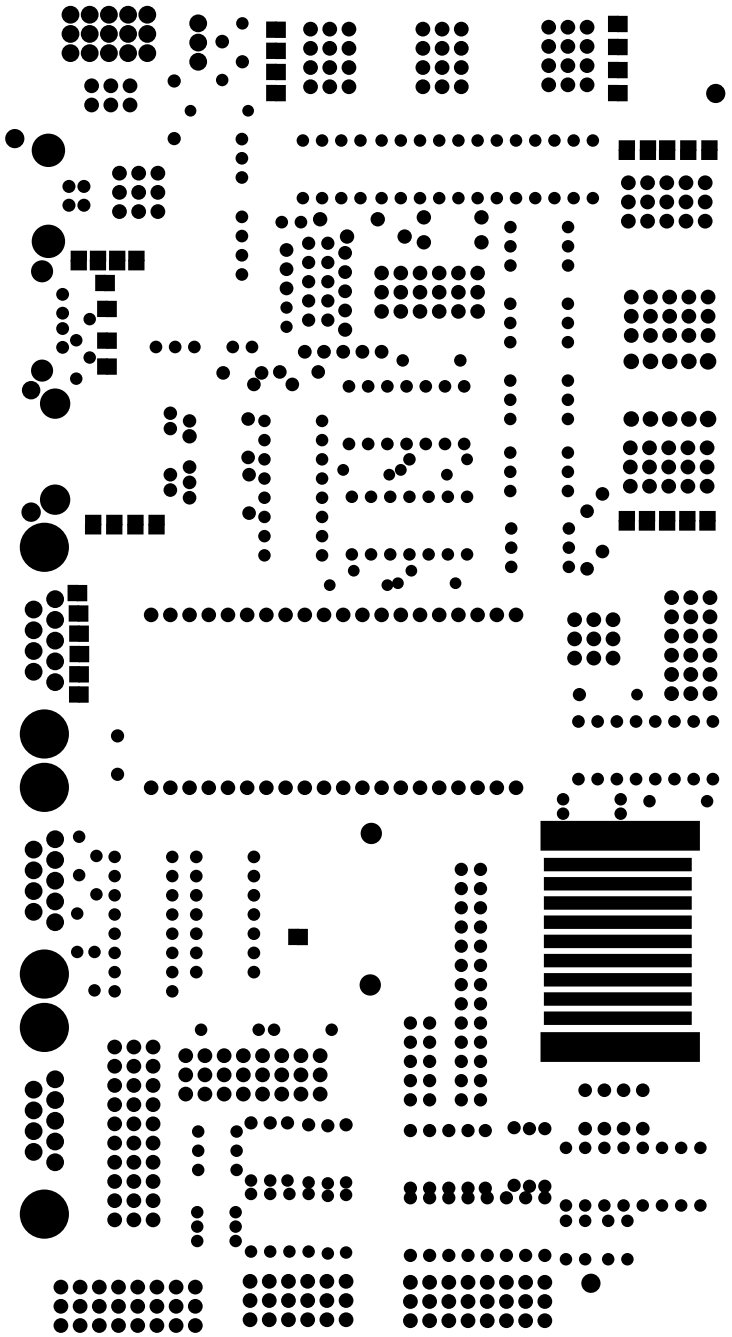
controlboard_2.3, bottom (mirrored), scale = 1:1.000
/home/frans/Documents/controlboard.pcb



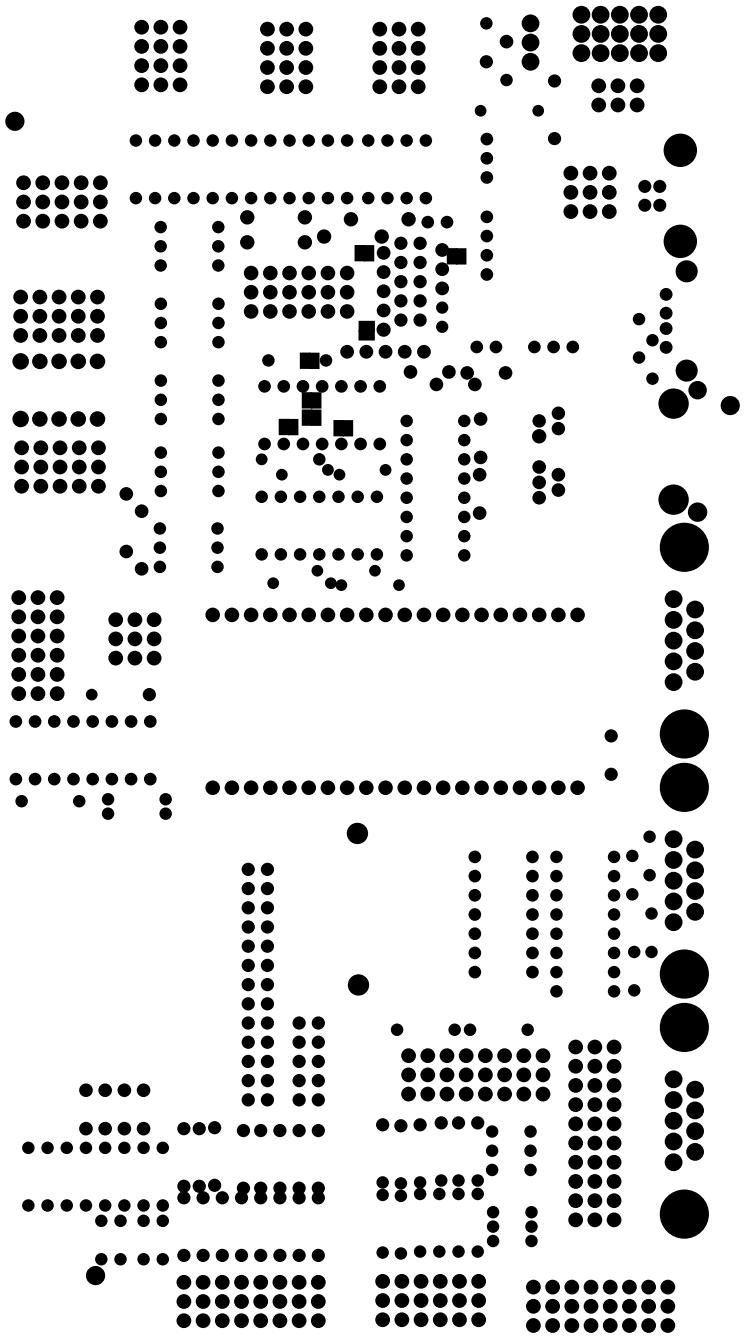
controlboard_2.3, outline, scale = 1:1.000
/home/frans/Documents/controlboard.pcb



controlboard_2.3, plated-drill, scale = 1:1.000
/home/frans/Documents/controlboard.pcb

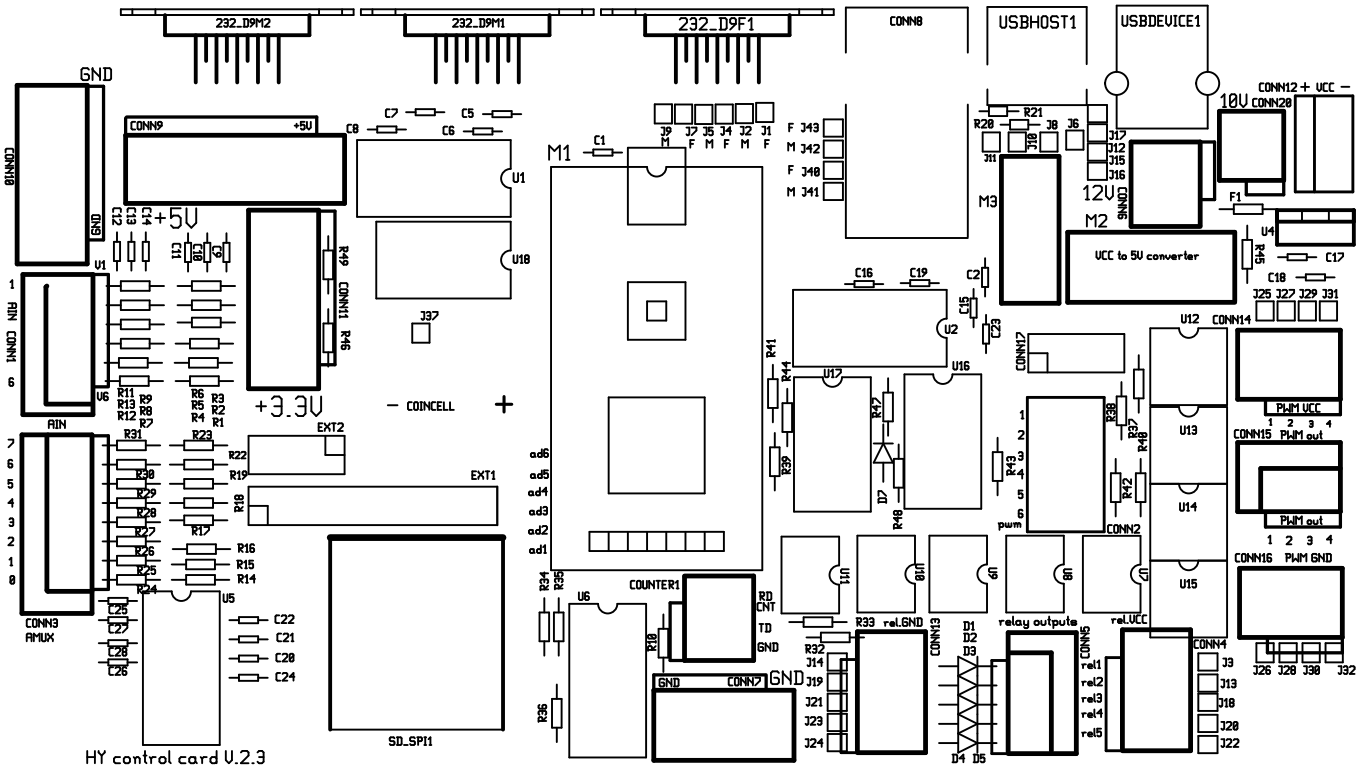


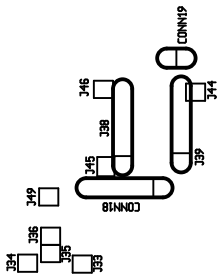
controlboard_2.3, topmask, scale = 1:1.000
/home/frans/Documents/controlboard.pcb



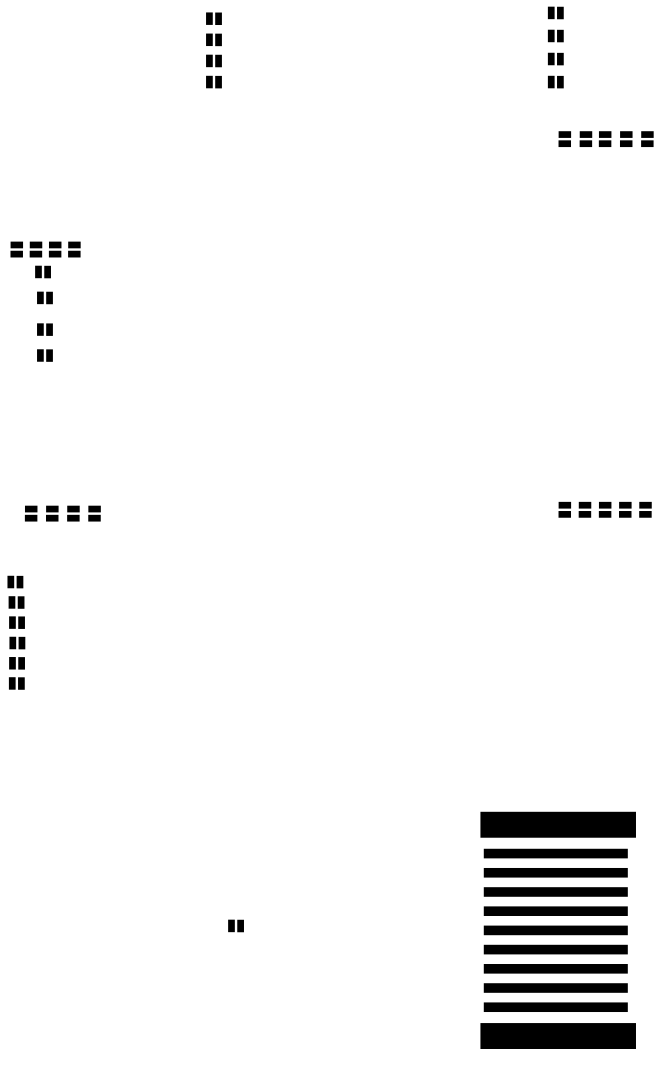
controlboard_2.3, bottommask (mirrored), scale = 1:1.000
/home/frans/Documents/controlboard.pcb

controlboard_2.3, topsilk, scale = 1:1.000
/home/frans/Documents/controlboard.pcb

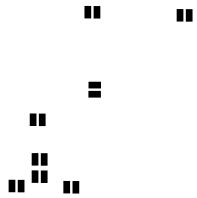




controlboard_2.3, bottomsilk (mirrored), scale = 1:1.000
/home/frans/Documents/controlboard.pcb

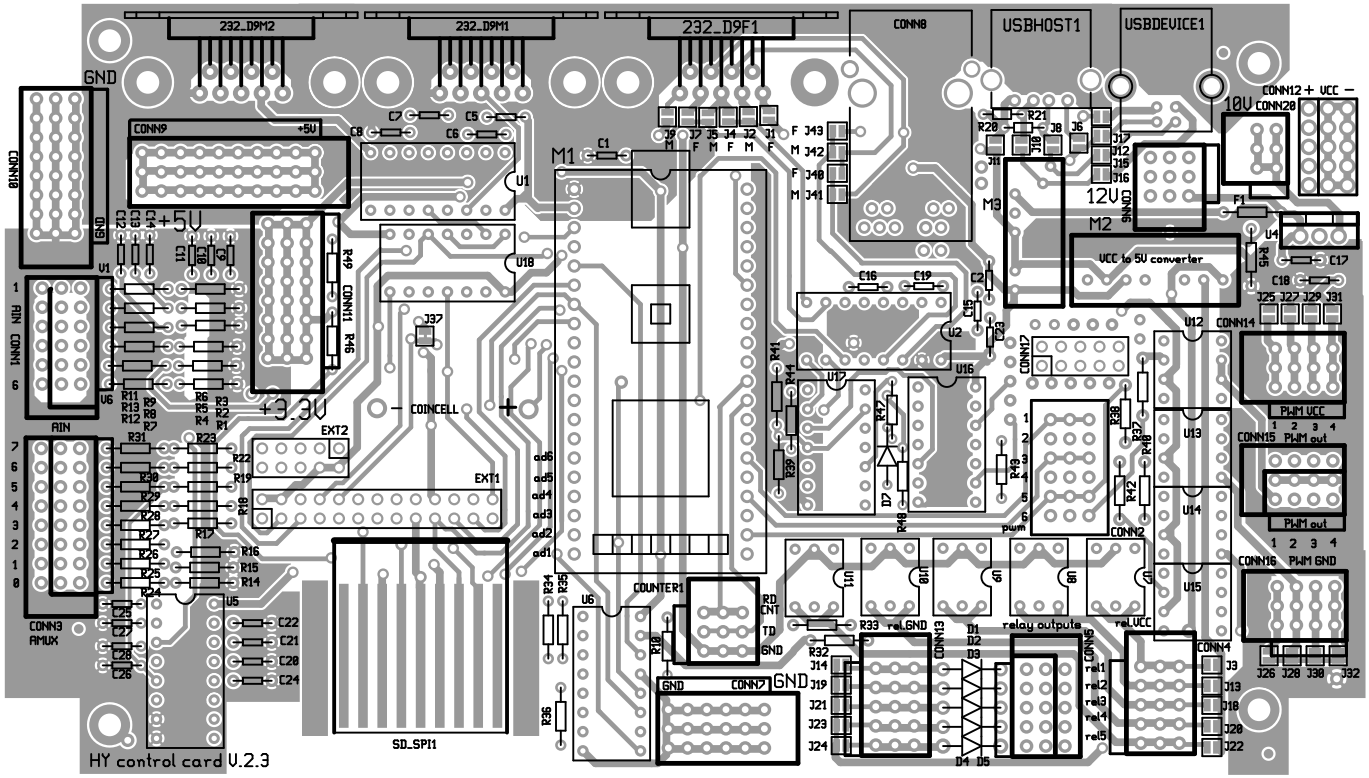


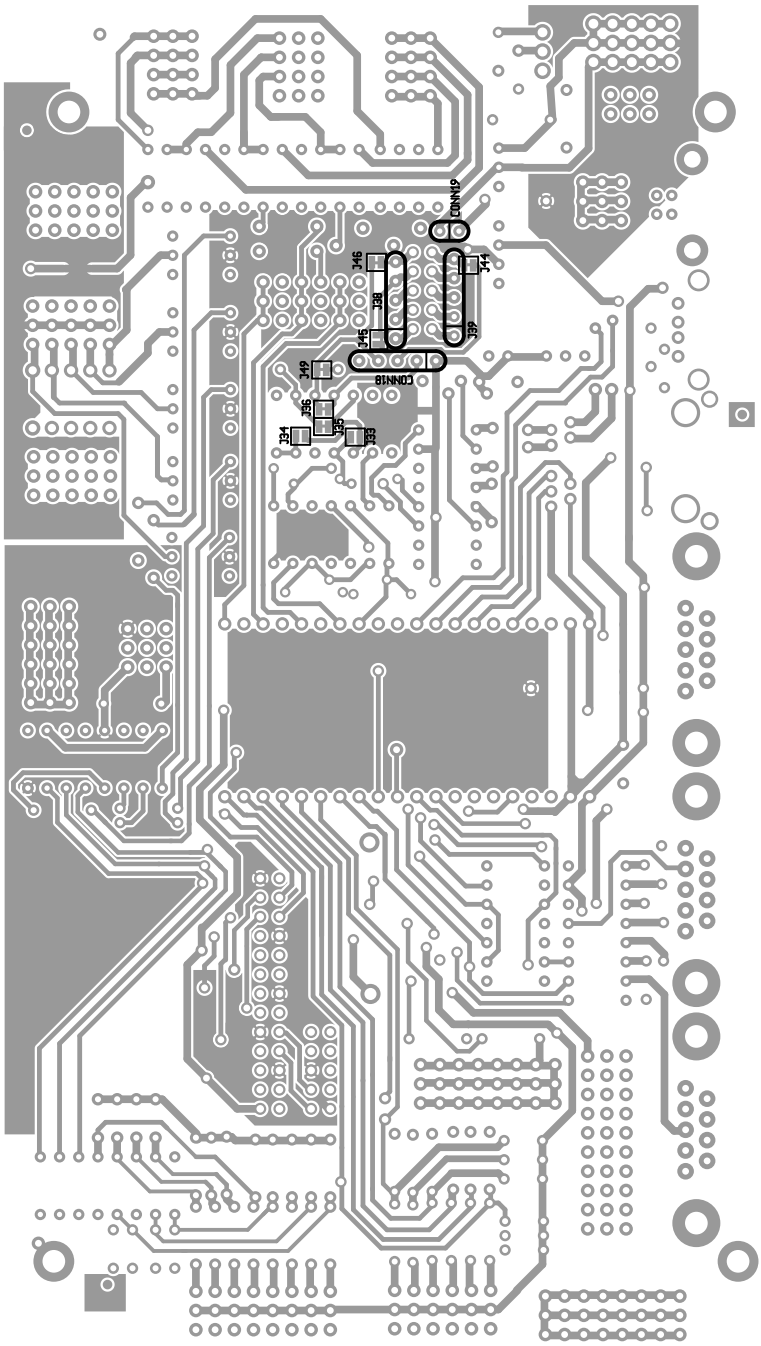
controlboard_2.3, toppaste, scale = 1:1.000
/home/frans/Documents/controlboard.pcb



controlboard_2.3, bottompaste (mirrored), scale = 1:1.000
/home/frans/Documents/controlboard.pcb

controlboard_2.3, topassembly, scale = 1:1.000
/home/frans/Documents/controlboard.pcb





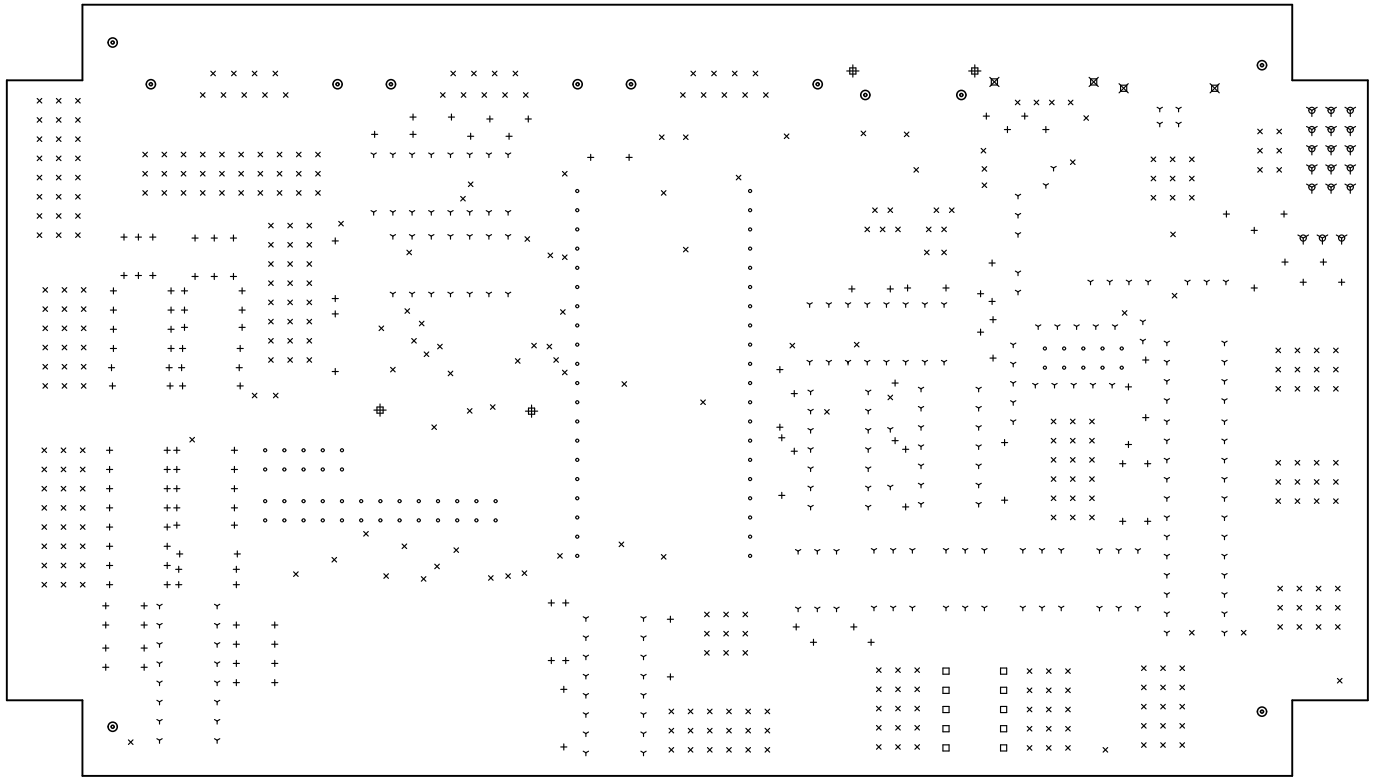
controlboard_2.3, bottomassembly (mirrored), scale = 1:1.000
/home/frans/Documents/controlboard.pcb

controlboard_2.3, fab, scale = 1:1.000
/home/frans/Documents/controlboard.pcb

There are 9 different drill sizes used in this layout, 864 holes total

Symbol	Diam. (Inch)	Count	Plated?
˅	0.028	205	YES
+	0.031	152	YES
×	0.035	373	YES
◦	0.039	86	YES
□	0.043	10	YES
⊽	0.051	18	YES
⊕	0.063	4	YES
⊠	0.087	4	YES
◎	0.119	12	YES

Title: controlboard_2.3 - Fabrication Drawing
Author: Frans Korhonen
Date: to 4. lokakuuta 2018 18.02.51 UTC



Board outline is the centerline of this path