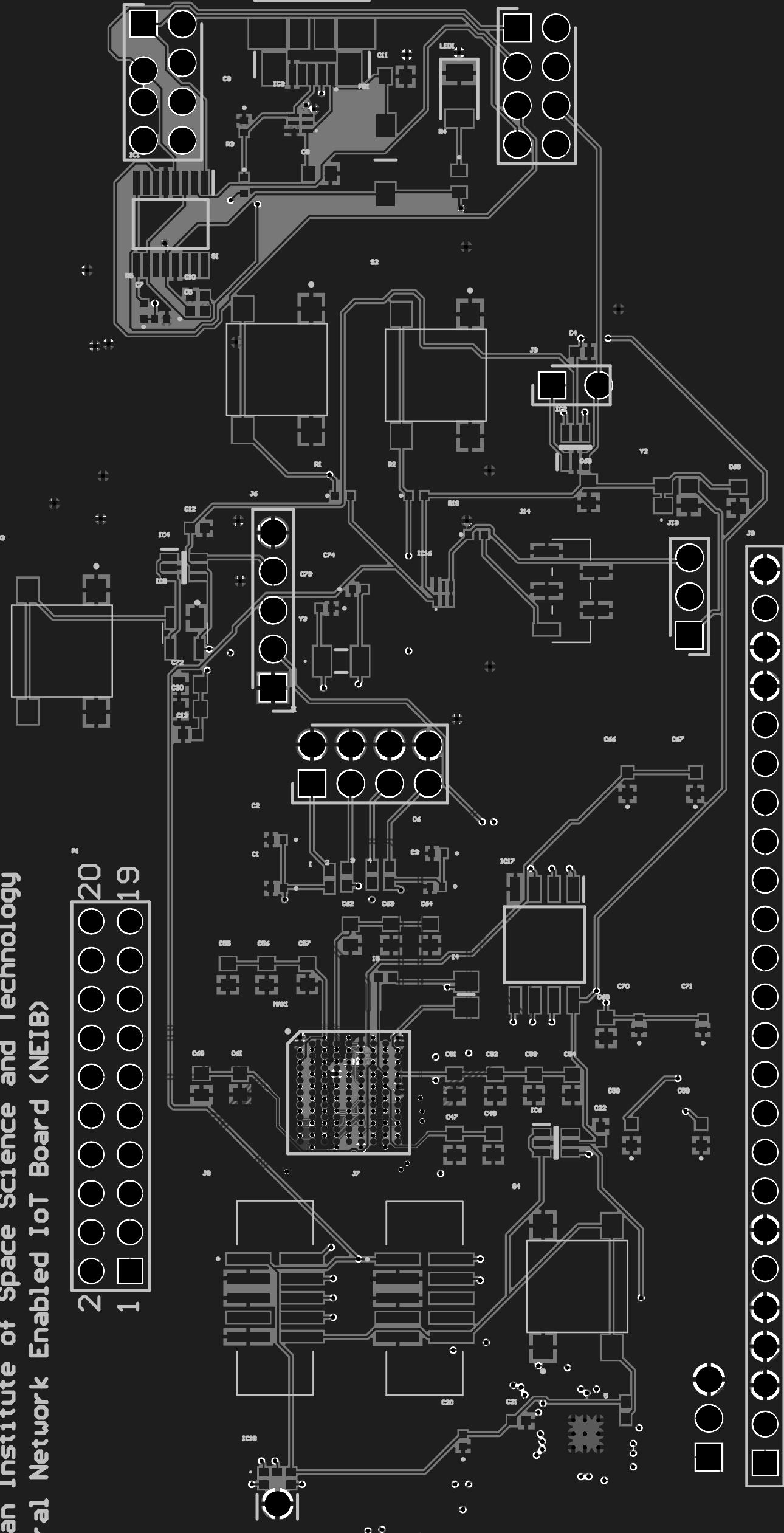
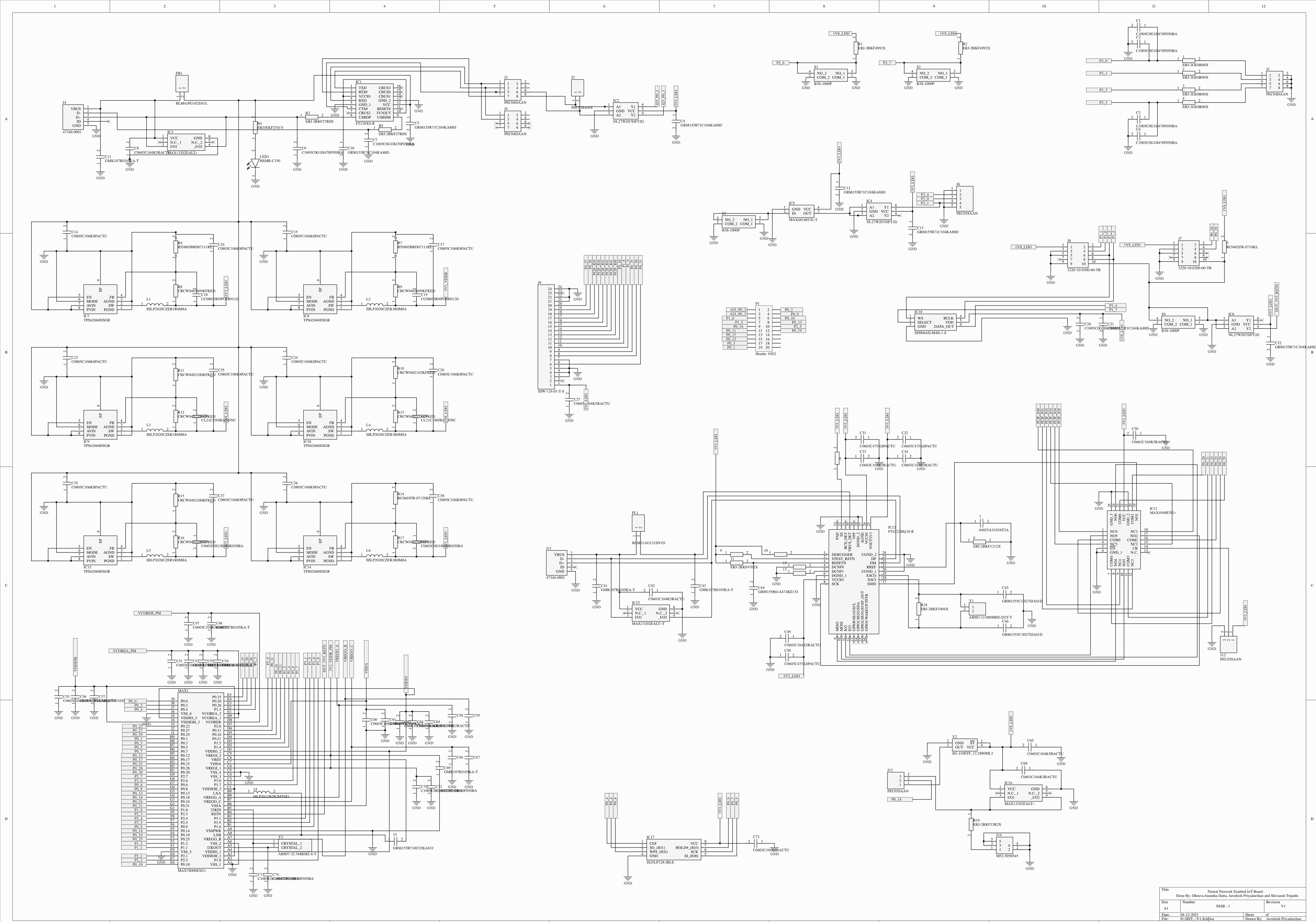


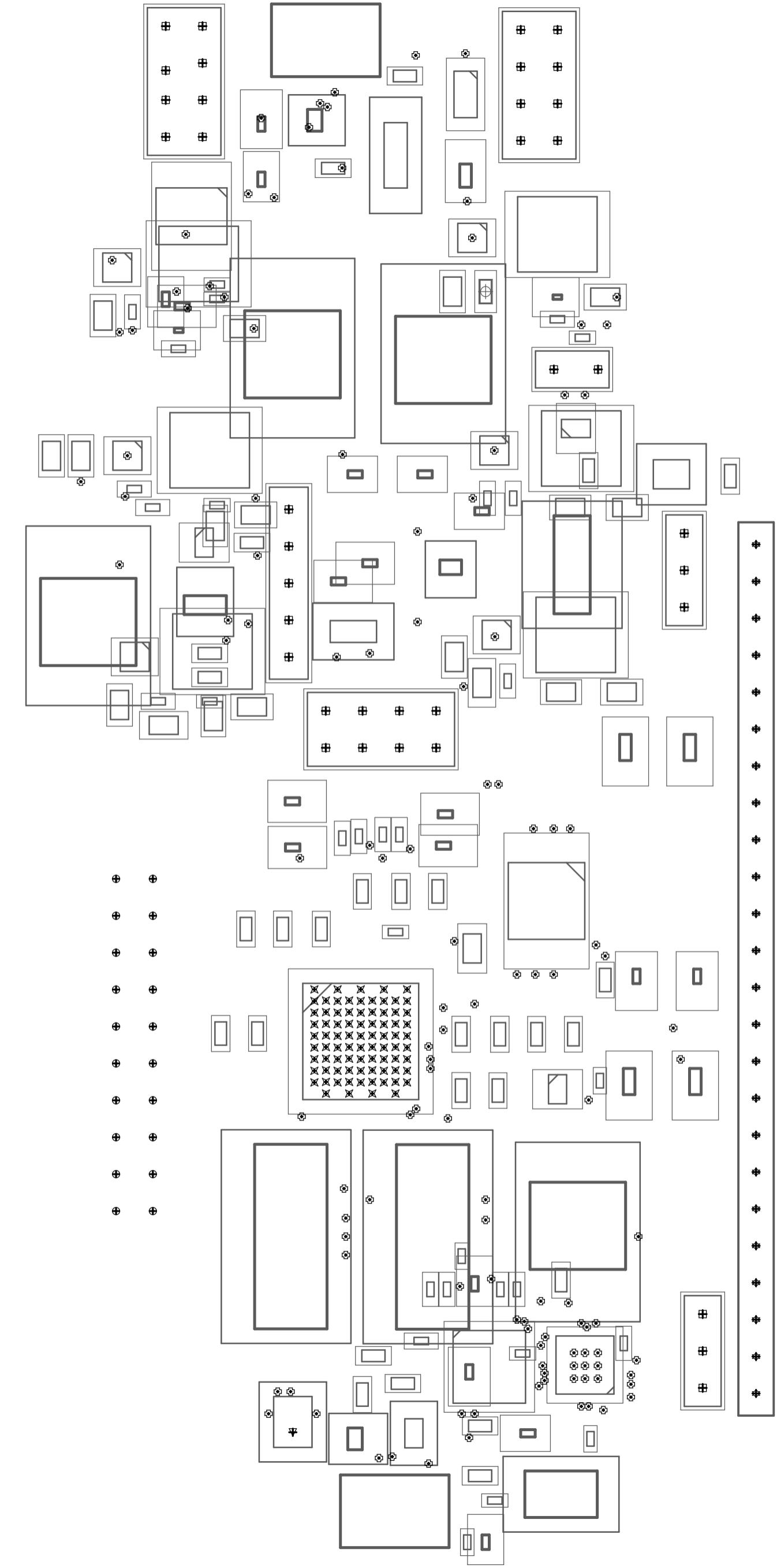
**Indian Institute of Space Science and Technology
Neural Network Enabled IoT Board (NEIB)**

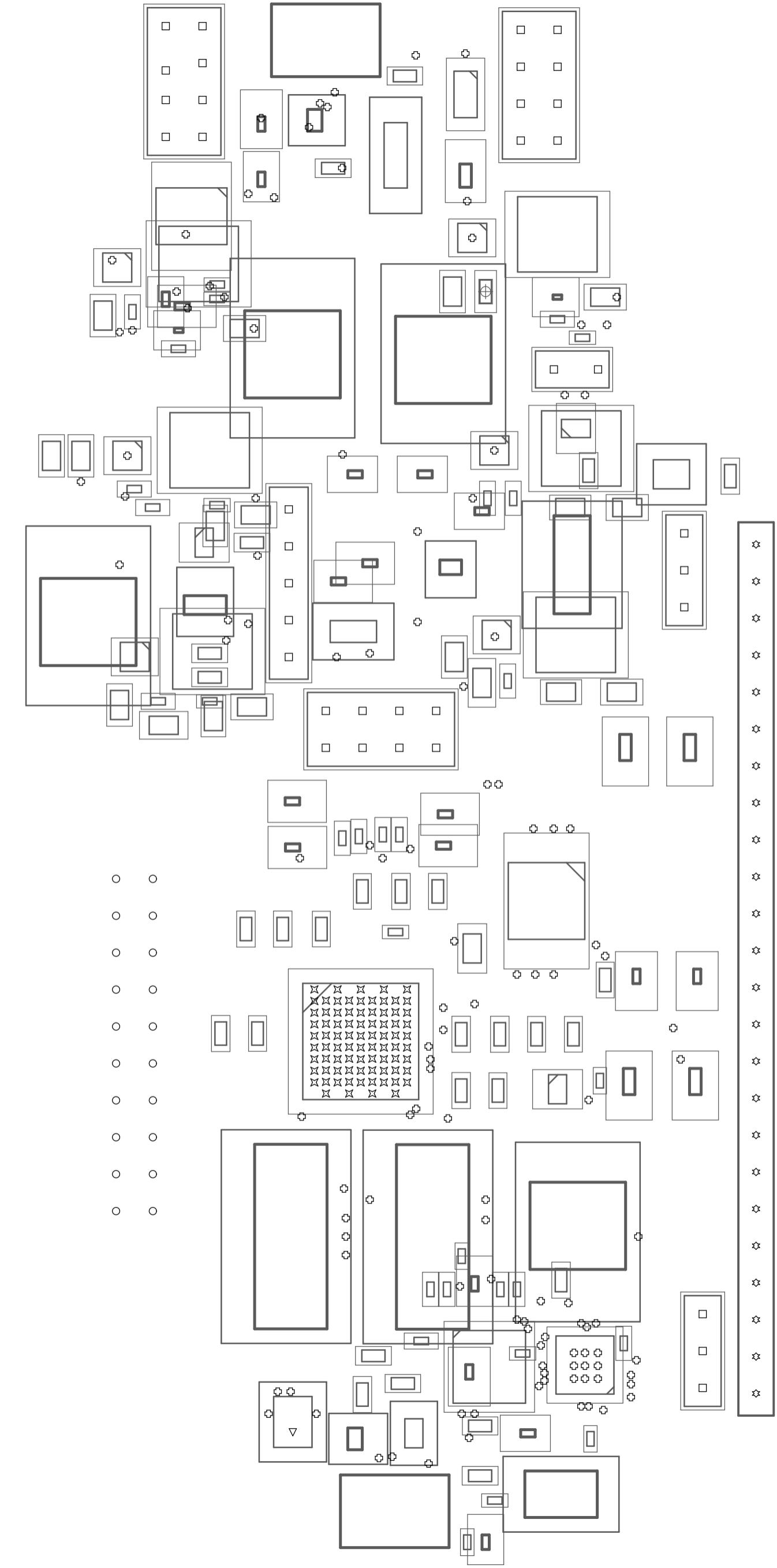


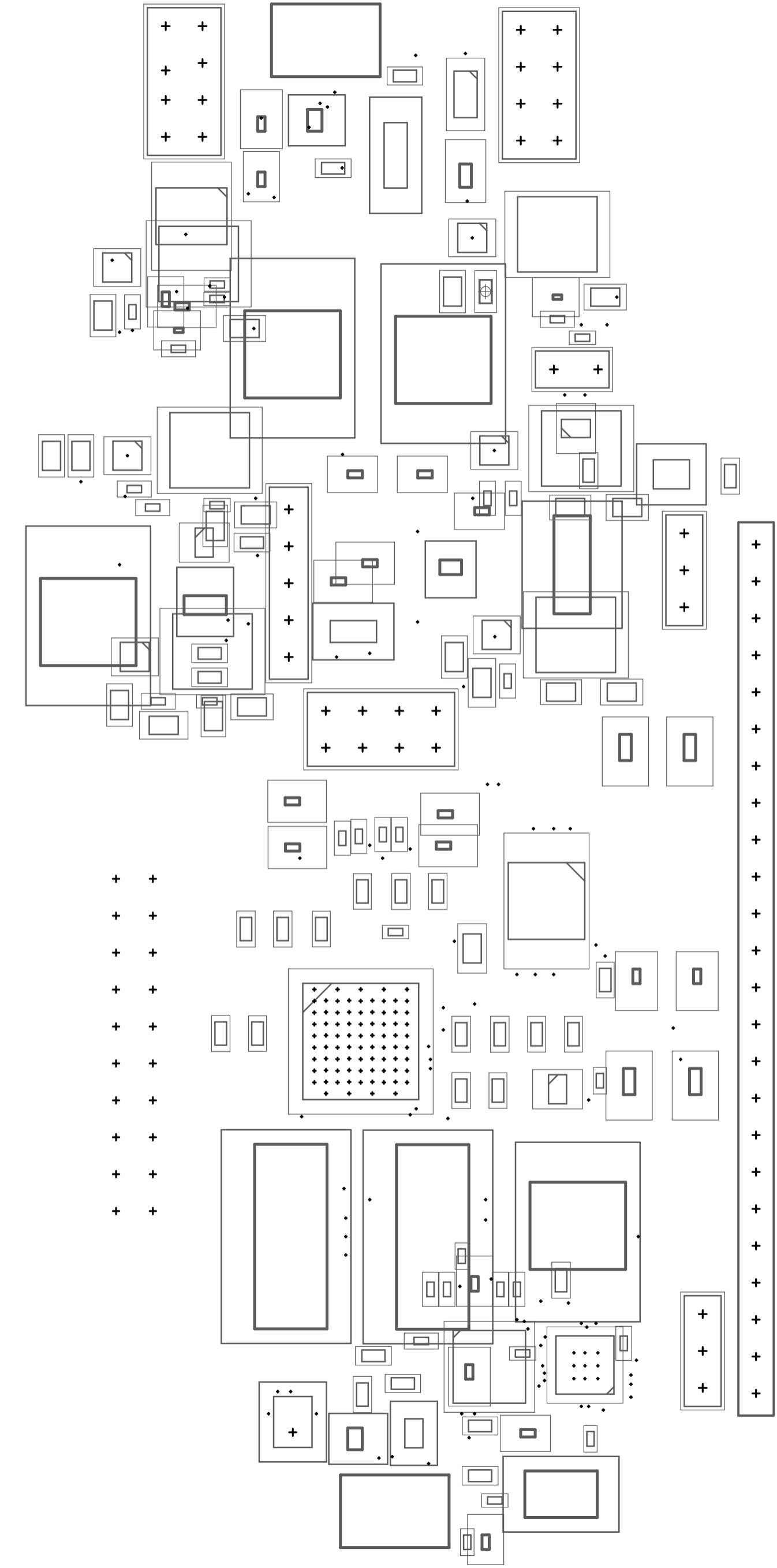


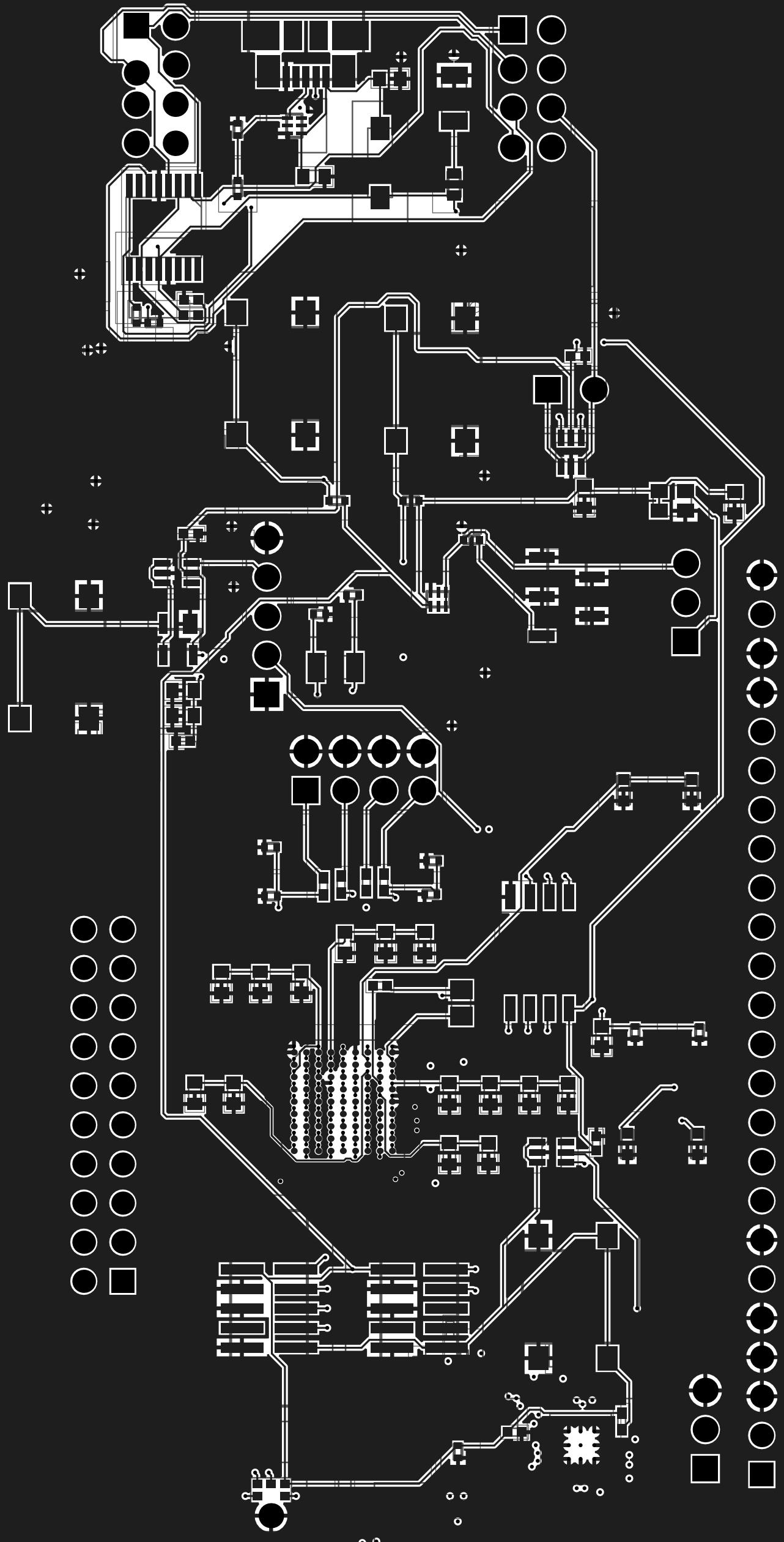
Board Stack Report

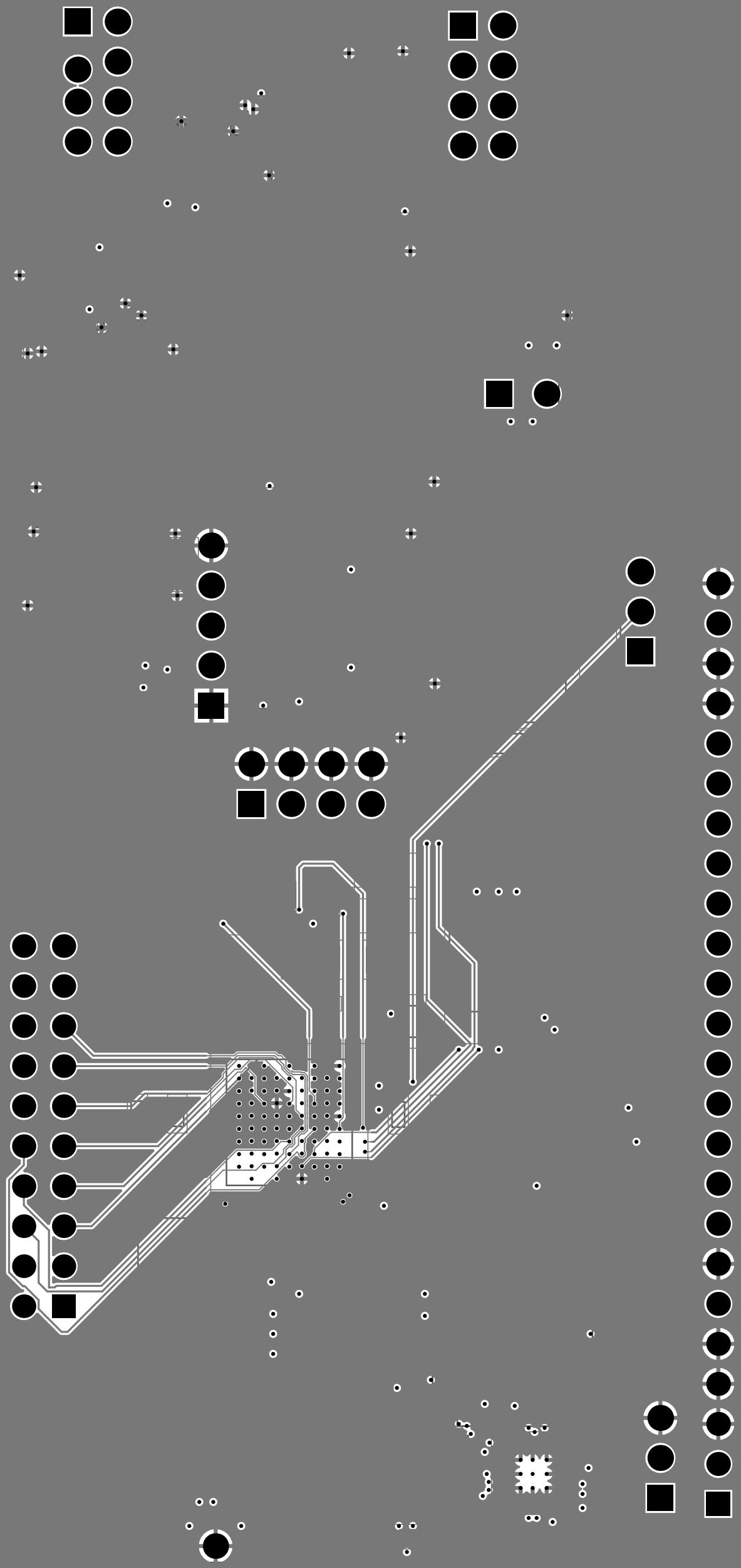
Stack Up		Layer Stack			
Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3	■ ■ ■ ■ ■ ■ ■ ■	Top Solder	SM-001	1.00mil	4
4		Top Layer	Copper	1.38mil	
5		Dielectric 1	PP-006	2.80mil	4.1
6		Dielectric 2	PP-006	2.80mil	4.1
7	■ ■ ■ ■ ■ ■ ■ ■	Int1 (GND)	Copper	1.38mil	
8		Dielectric 3	Core-035	18.00mil	4.7
9	■ ■ ■ ■ ■ ■ ■ ■	Int2 (Sign)	Copper	1.38mil	
10		Dielectric 4	PP-006	2.80mil	4.1
11		Dielectric 5	PP-006	2.80mil	4.1
12	■ ■ ■ ■ ■ ■ ■ ■	Int3 (Sign)	Copper	1.38mil	
13		Dielectric 6	Core-035	18.00mil	4.7
14	■ ■ ■ ■ ■ ■ ■ ■	Int4 (PWR)	Copper	1.38mil	
15		Dielectric 7	PP-006	2.80mil	4.1
16		Dielectric 8	PP-006	2.80mil	4.1
17	■ ■ ■ ■ ■ ■ ■ ■	Bottom Layer	Copper	1.38mil	
18		Bottom Solder	SM-001	1.00mil	4
19		Bottom Overlay			
20		Bottom Paste			
	Height : 63.07mil				

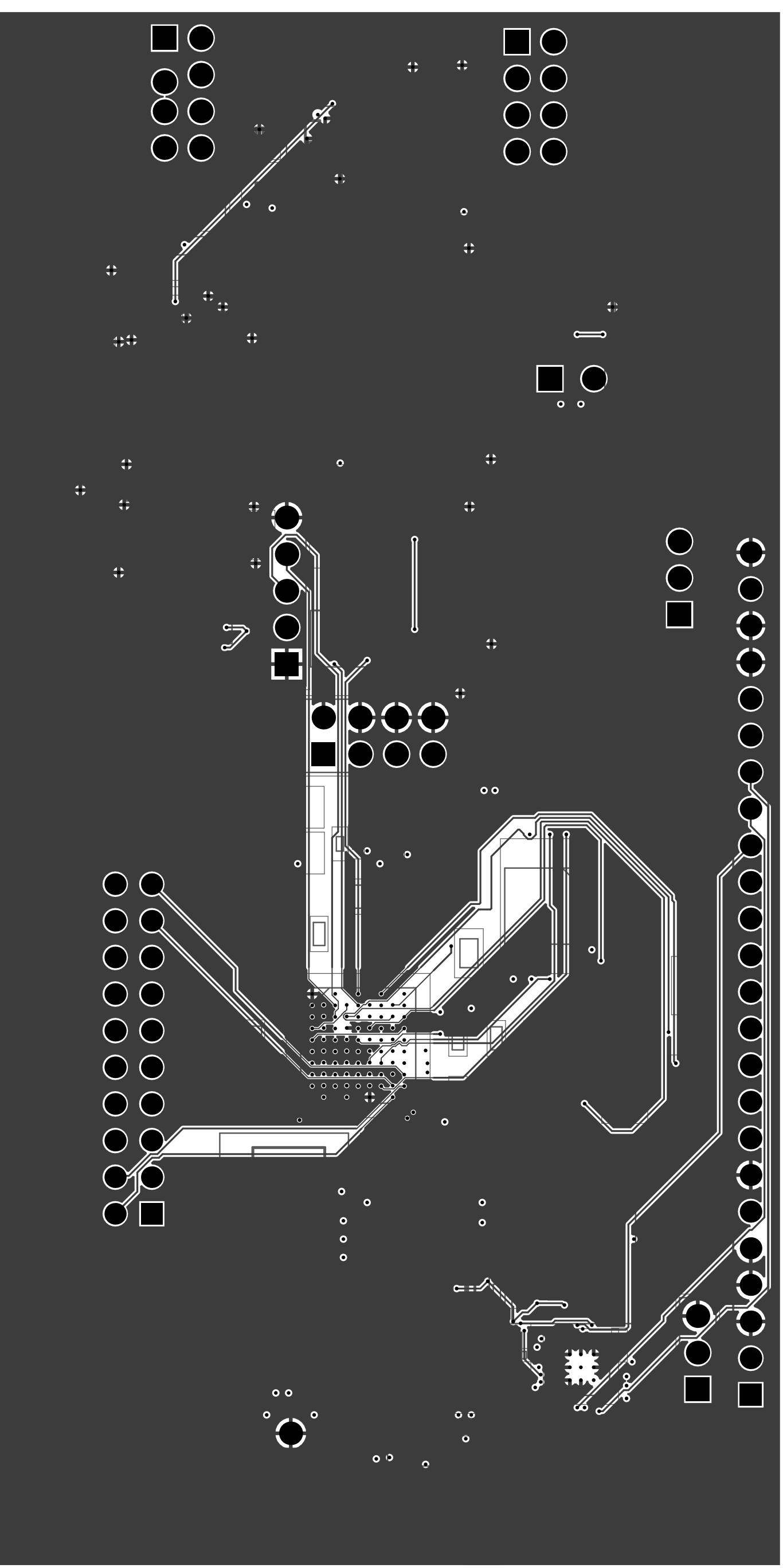


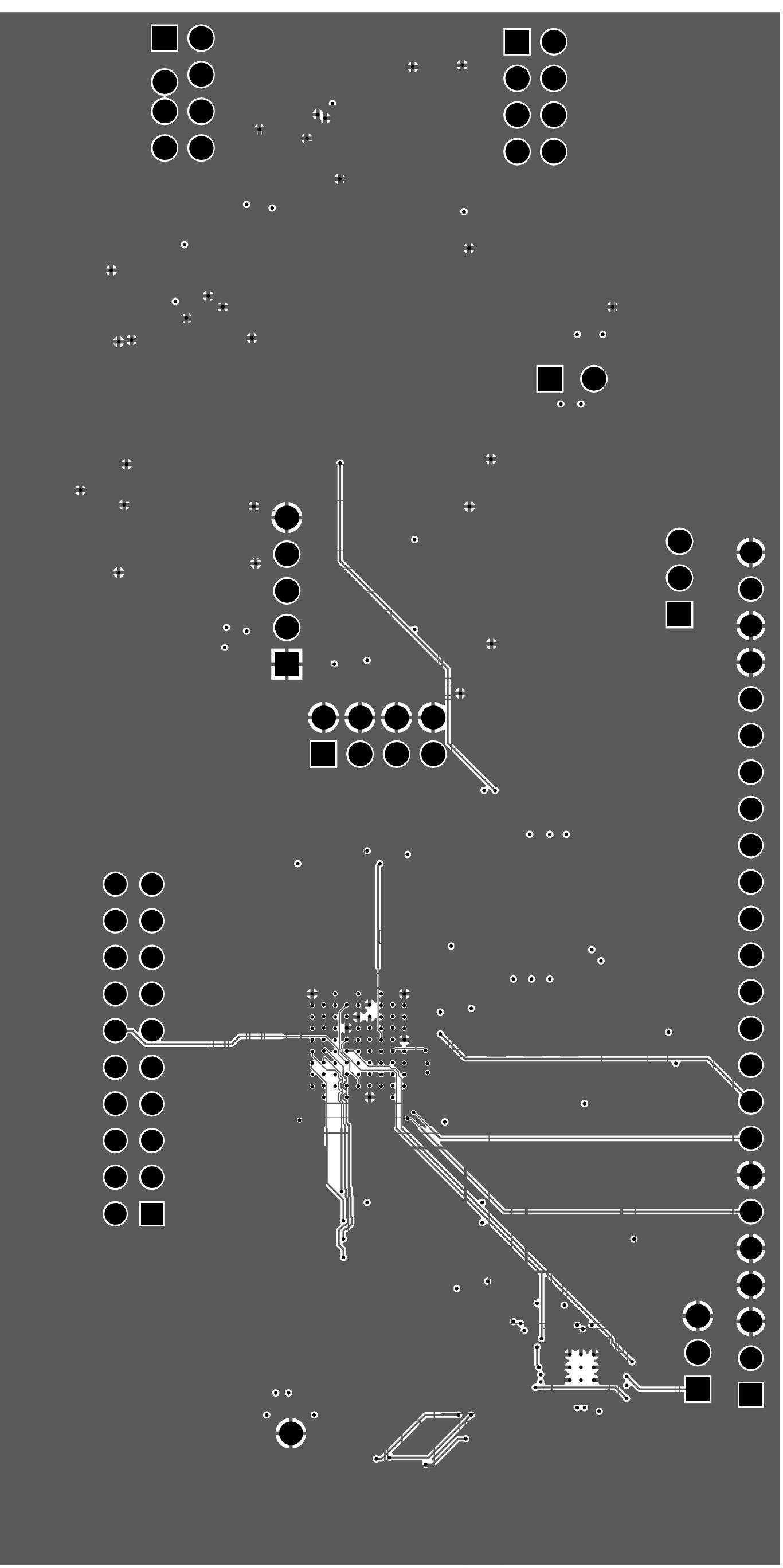


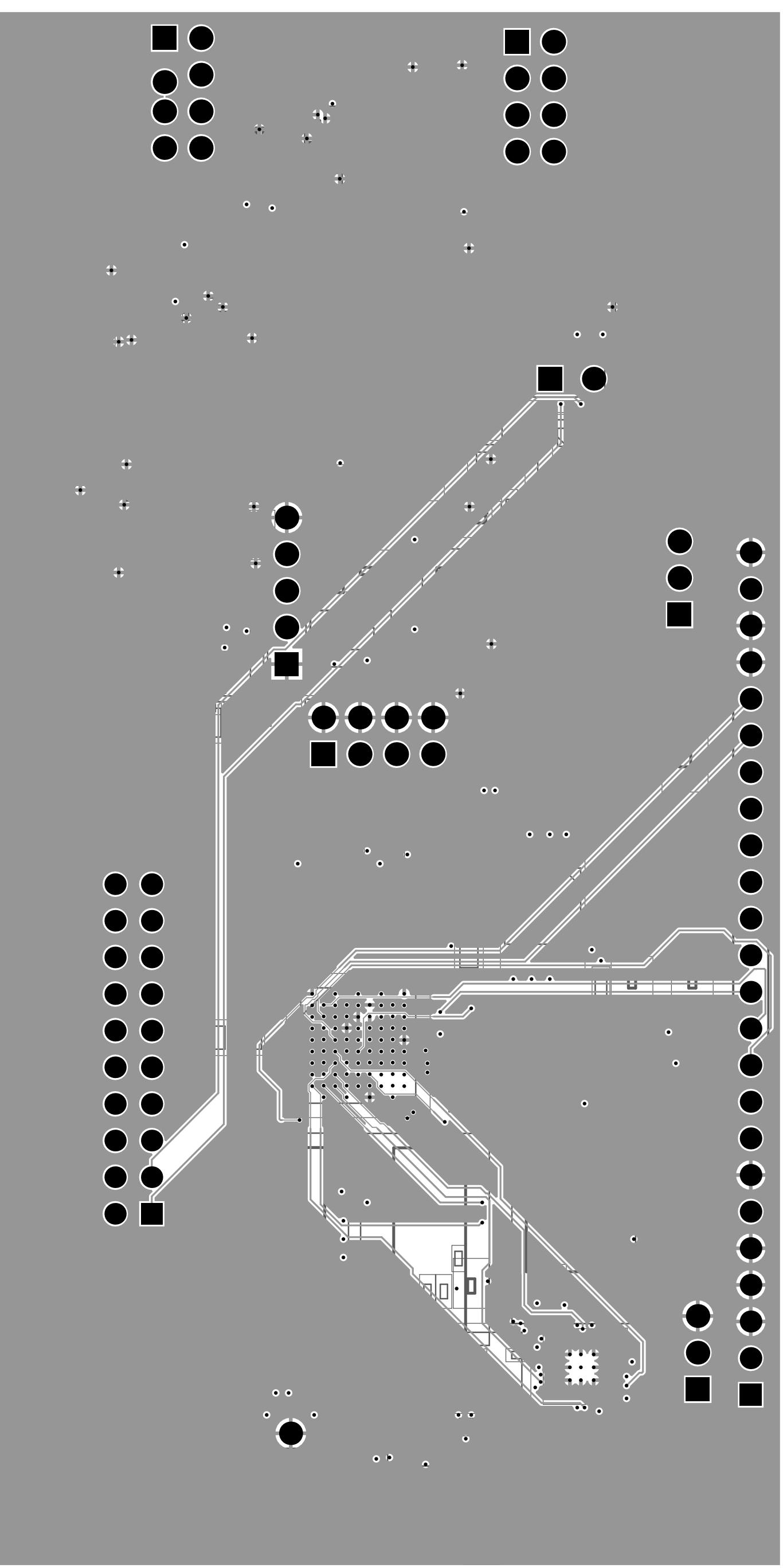


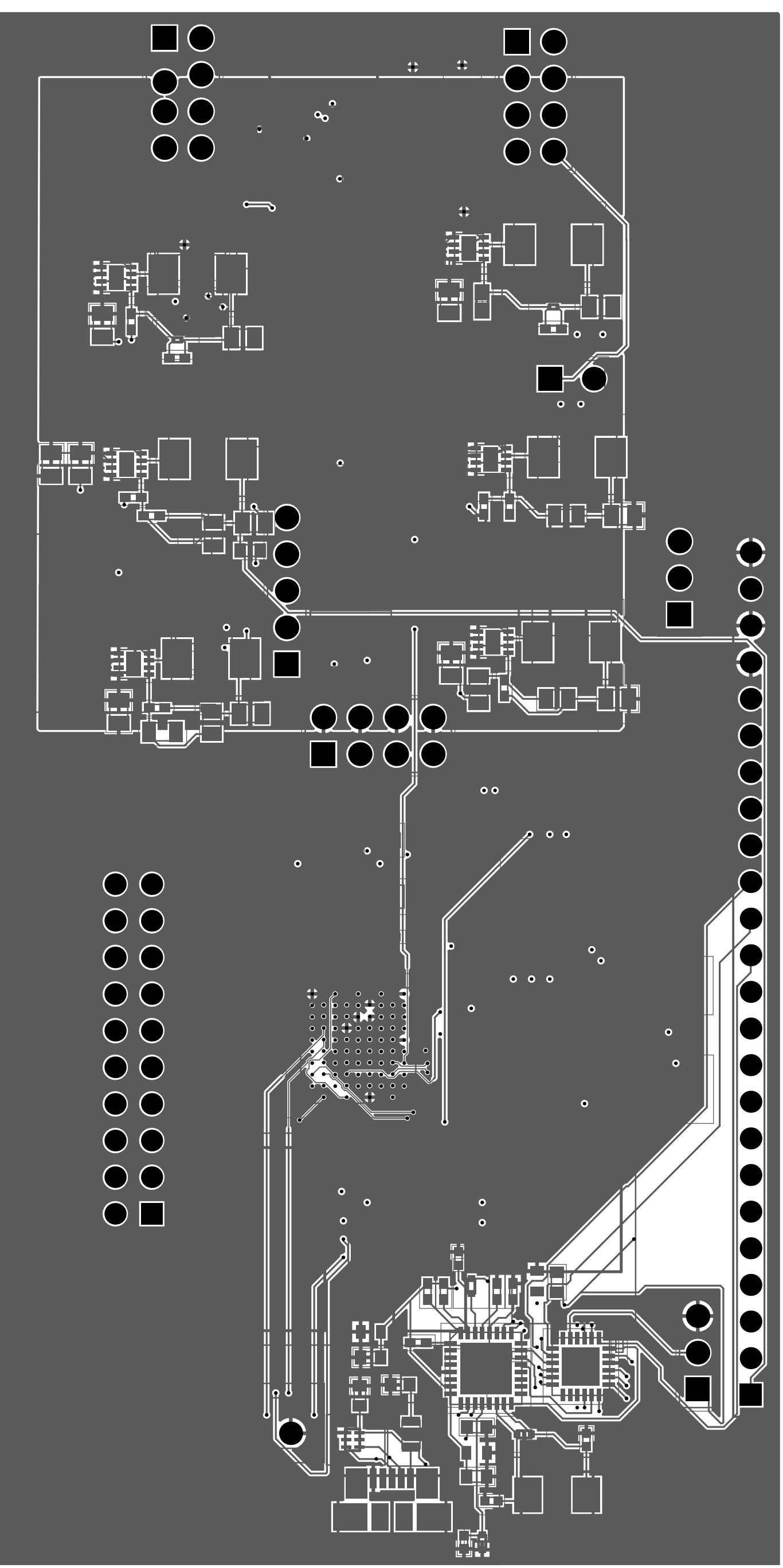




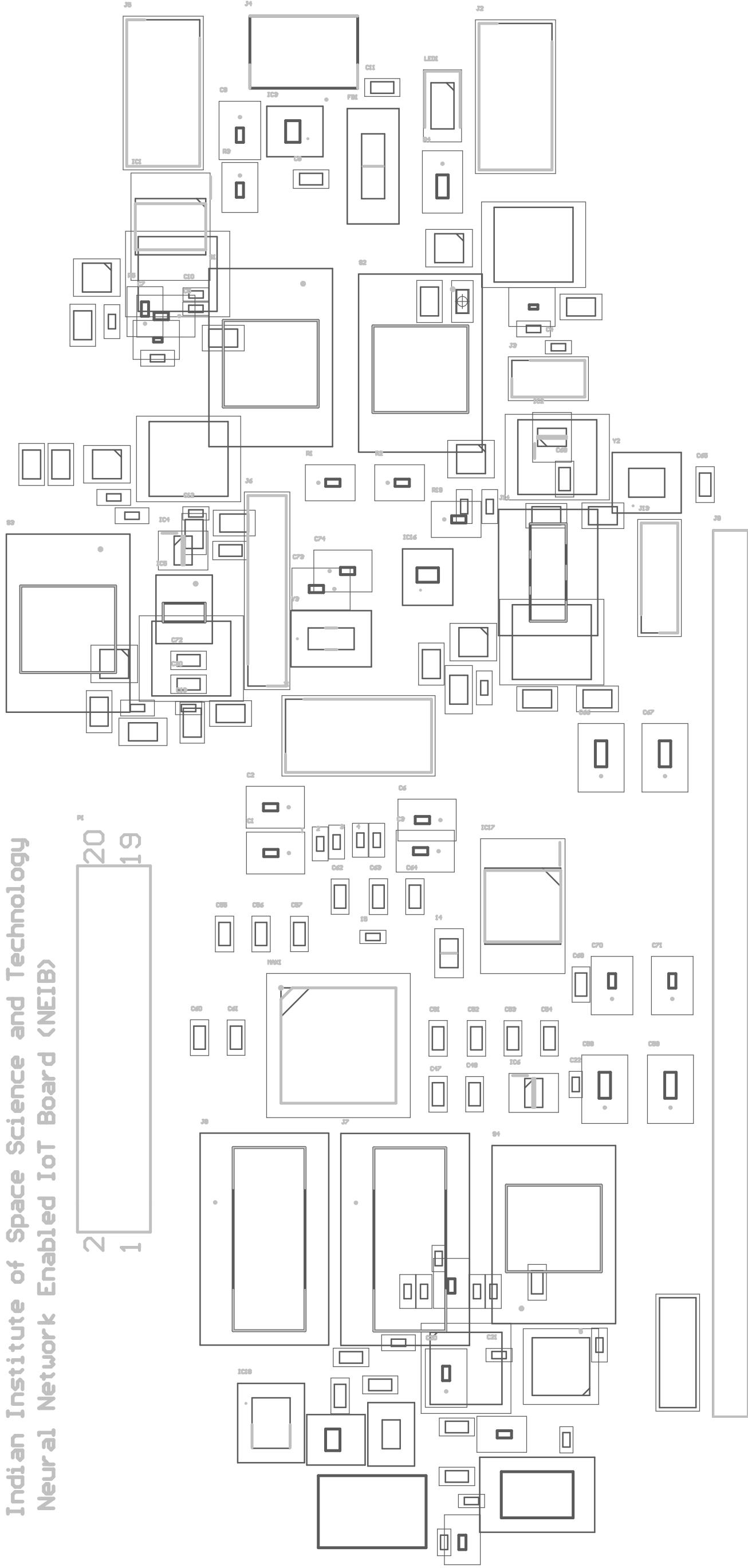








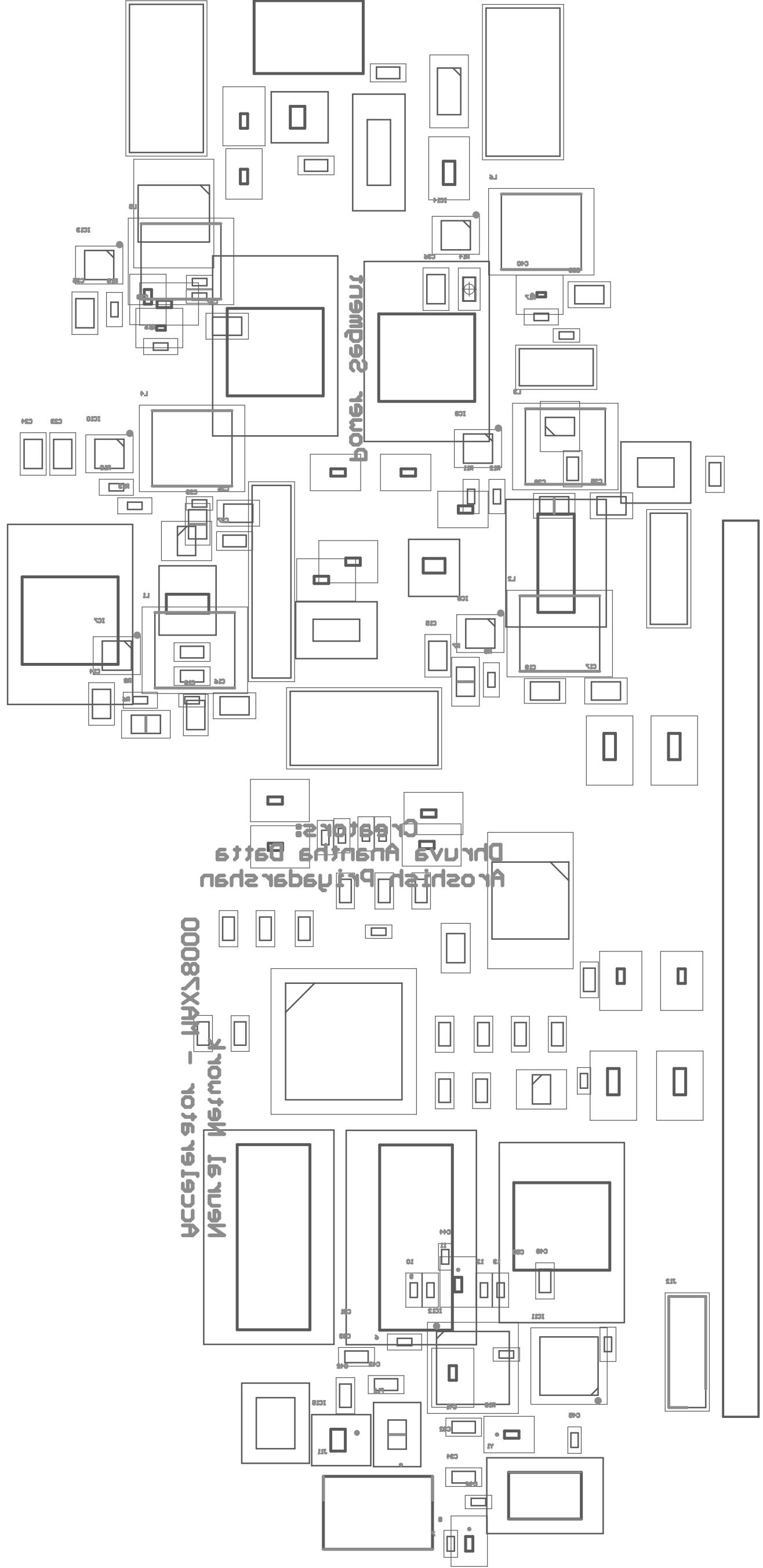
**Indian Institute of Space Science and Technology
Neural Network Enabled IoT Board (NEIB)**

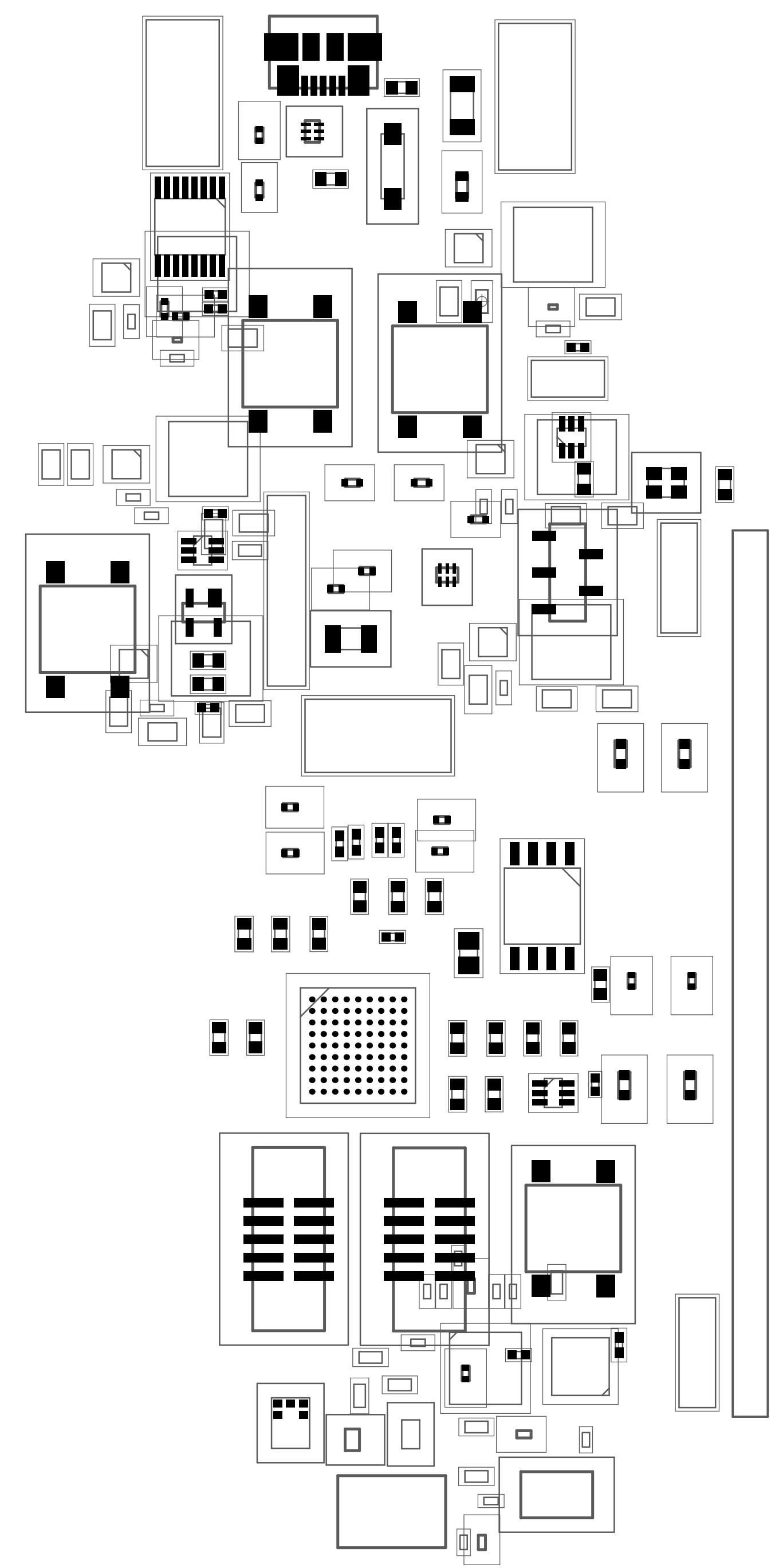


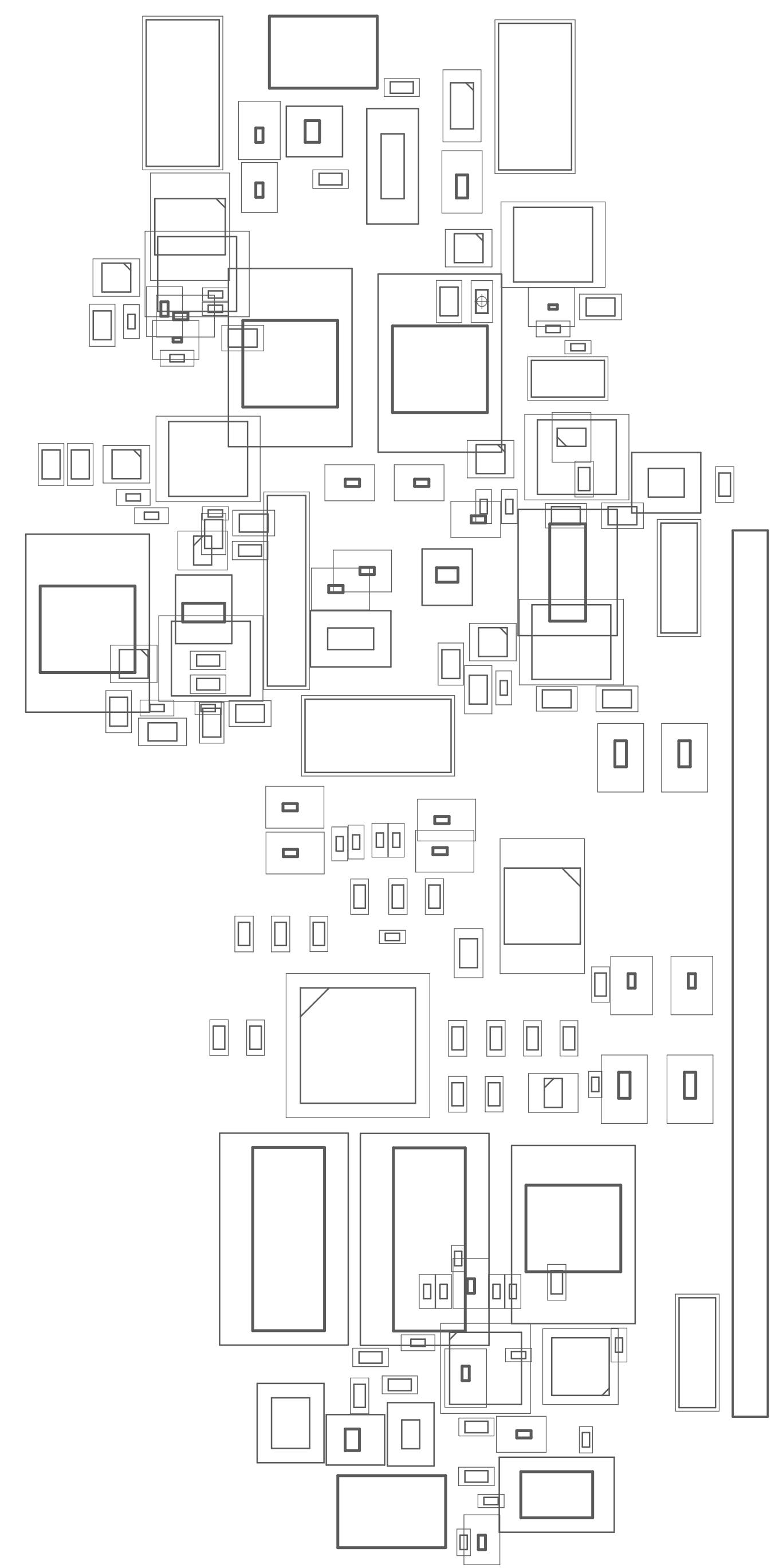
מִלְחָמָה - מִלְחָמָה
מִלְחָמָה - מִלְחָמָה

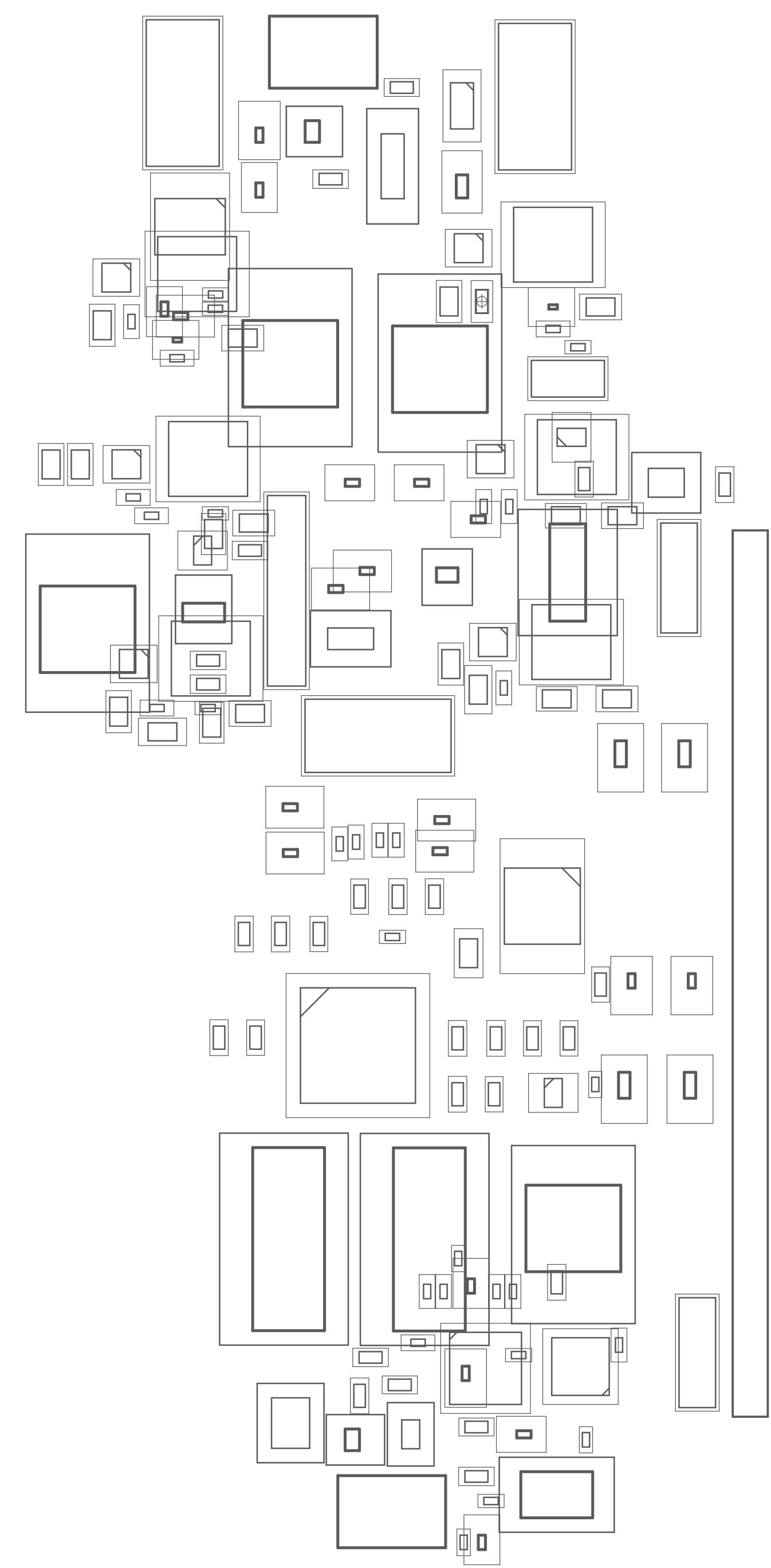
אַרְסְתִּיחָה בְּפִינְדֶּרֶשׁ
דִּירְעָמֵד אַנְגָּלְטָה בְּבָתָה

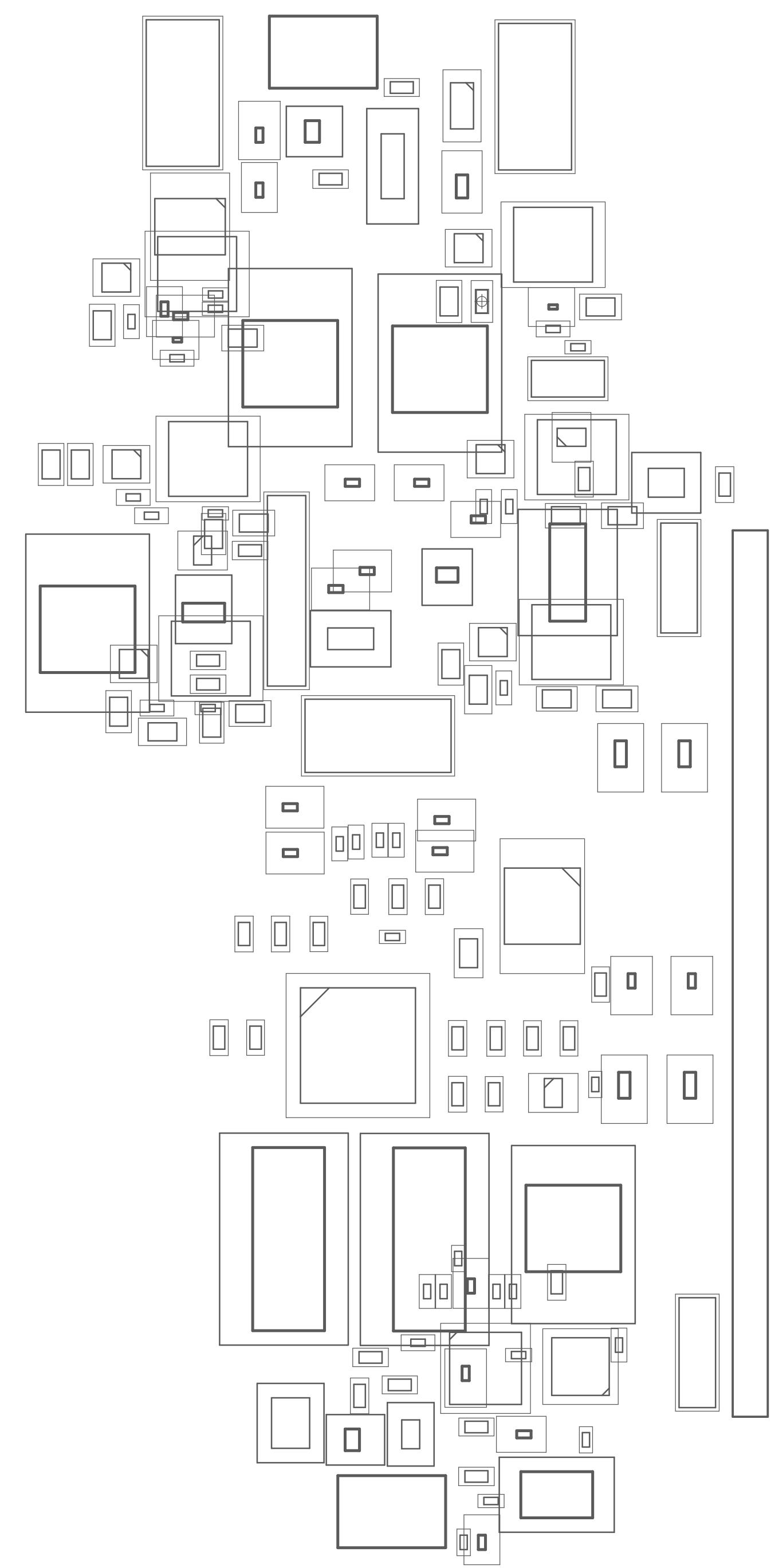
בְּמִנְרָה
סְדִמְתָּה

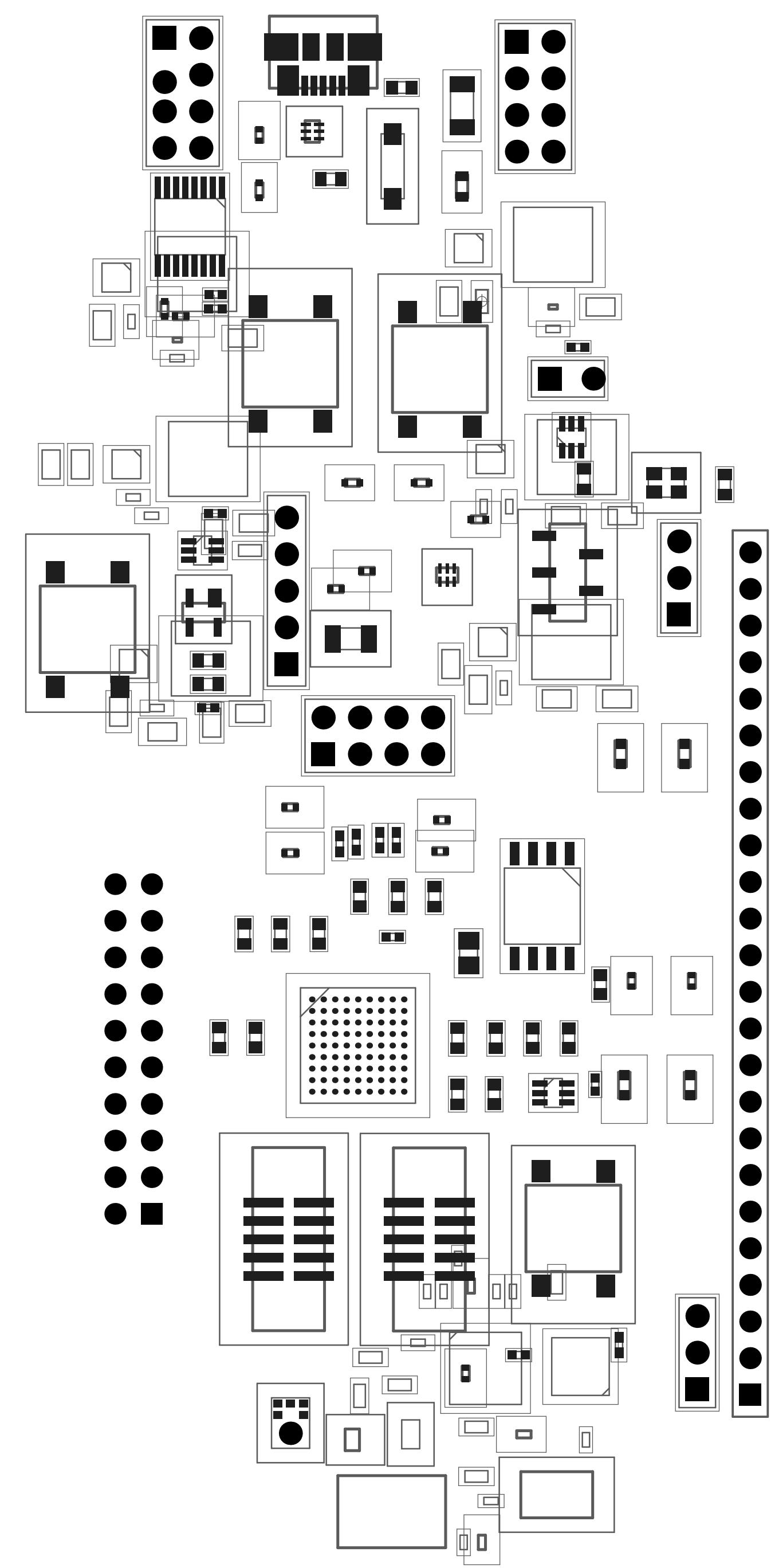


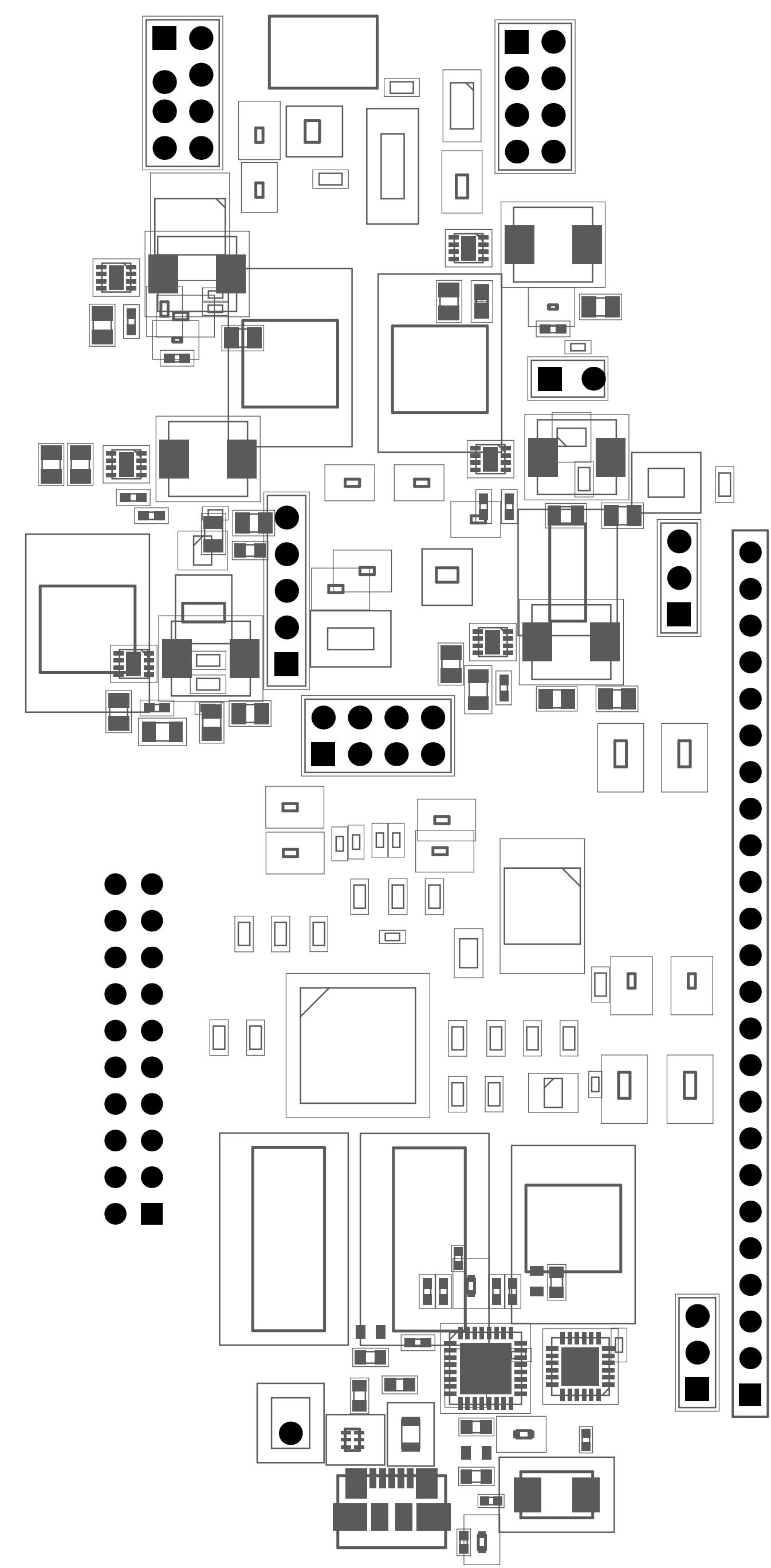


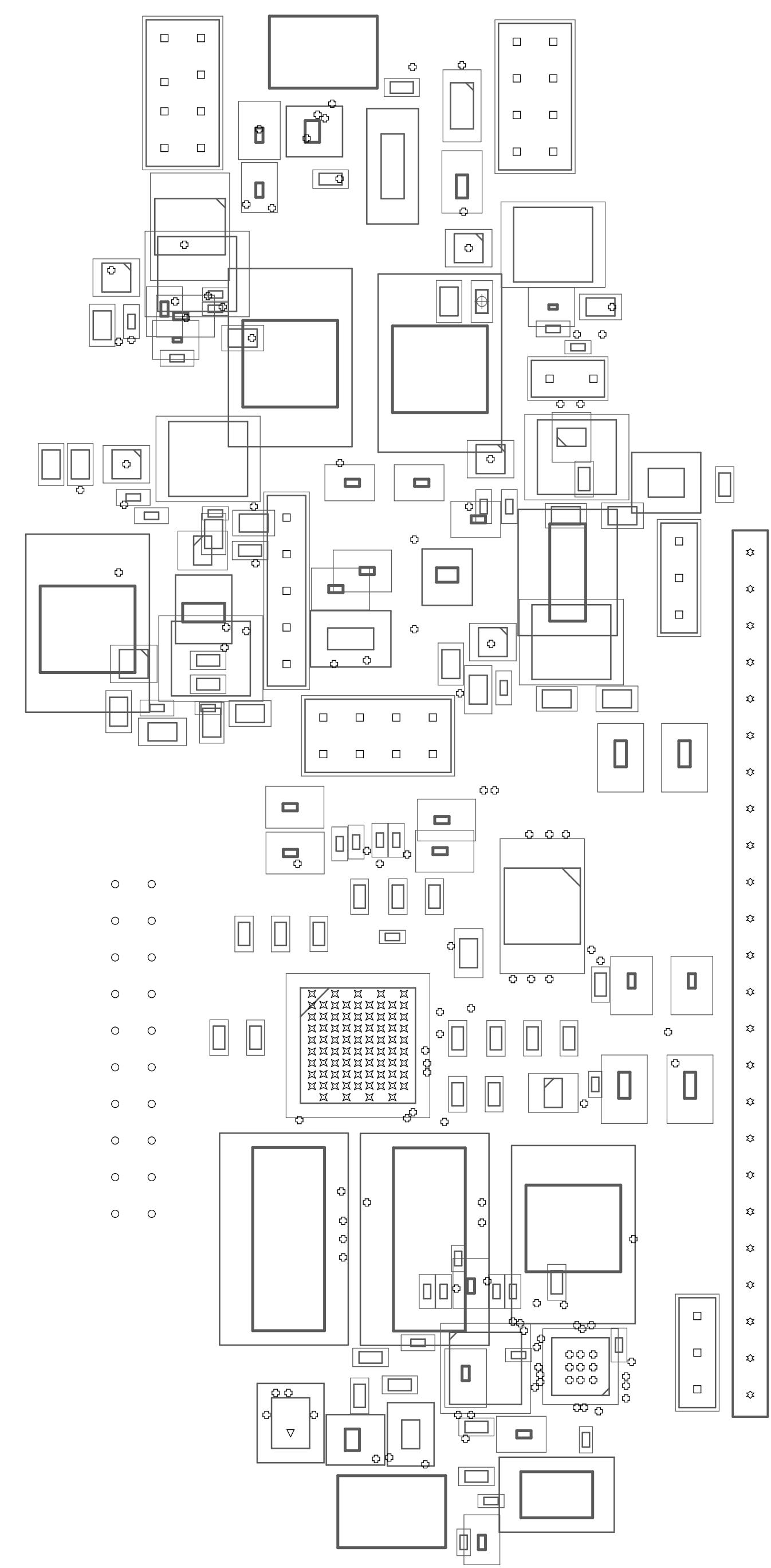


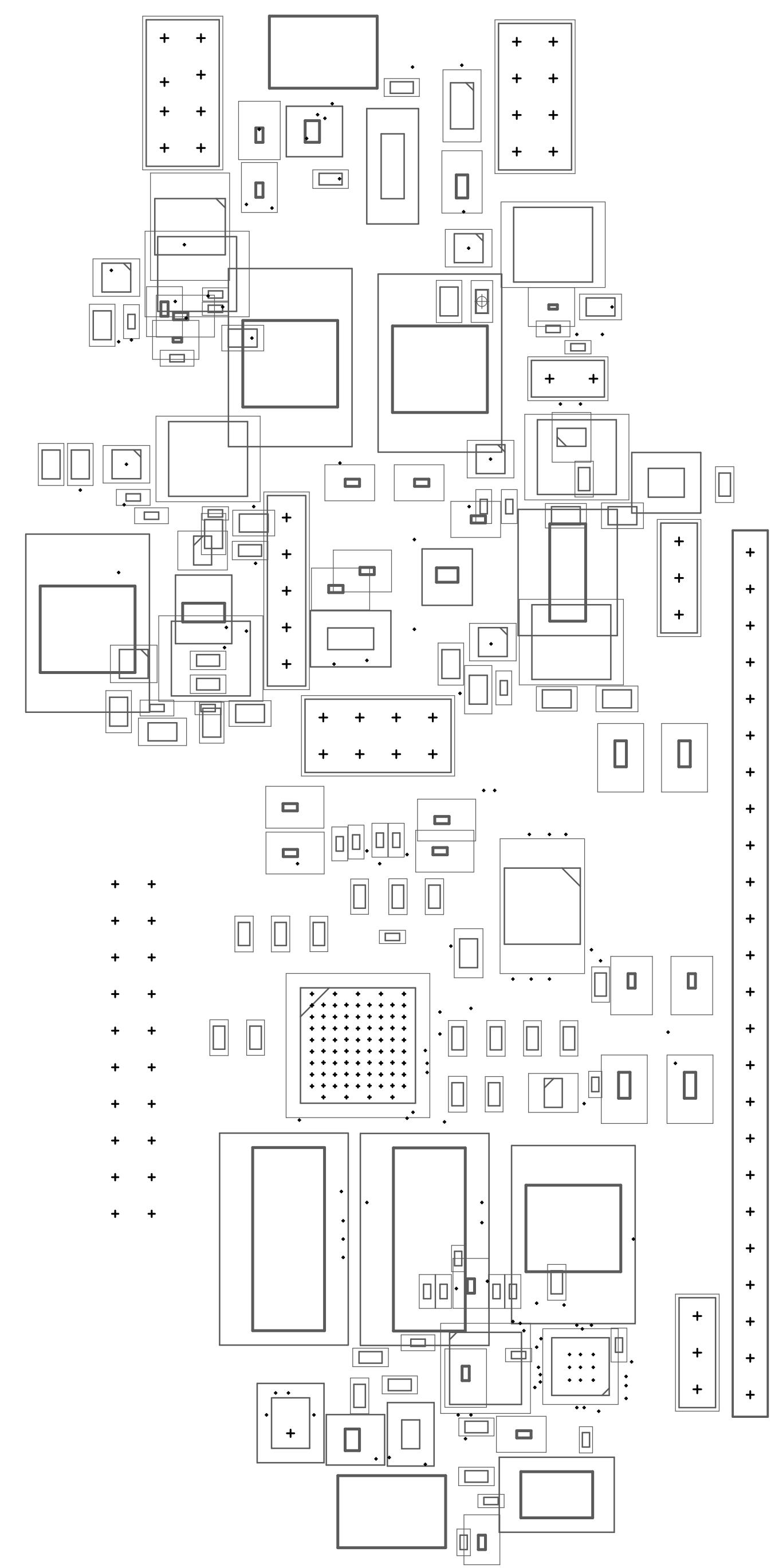












Comment	Description	Designator	Footprint	LibRef	Quantity
ERJ-2GE0R00X	Resistor	I_1, _2, _3, _4	RESC1005X40N	ERJ-2GE0R00X	4
RC0402FR-0710KL	Resistor	I_5, _6, _9, _10, _12, _13	RESC1005X40N	RC0402FR-0710KL	6
04025A101FAT2A	Capacitor	I_7	CAPC1005X56N	04025A101FAT2A	1
ERJ-2RKF1212K	Resistor	I_8	ERJ2R (0402)	ERJ-2RKF1212K	1
ERJ-2RKF4702X	Resistor	I_11	ERJ2R (0402)	ERJ-2RKF4702X	1
MLP2012H2R2MT051	Inductor	I_14	INDC2012X105N	MLP2012H2R2MT051	1
GRM155R71H332KA01J	Capacitor	I_15	CAPC1005X55N	GRM155R71H332KA01J	1
C1005COG1H470F050BA	Capacitor	C1, C2, C3, C6, C7, C9, C20, C70, C71, C73, C74	C1005_Commercial	C1005COG1H470F050BA	11
GRM155R71C104KA88D	Capacitor	C4, C5, C10, C12, C13, C21, C22	CAPC1005X55N	GRM155R71C104KA88D	7
C0603C104K5RACTU	Capacitor	C8, C27, C30, C33, C34, C42, C47, C49, C51, C52, C55, C56, C60, C63, C64, C65, C68, C72	CAPC1608X95N	C0603C104K5RACTU	18
GMK107BJ105KA-T	Capacitor	C11, C41, C43, C48, C53, C54, C57, C61, C62, C69	CAPC1608X90N	GMK107BJ105KA-T	10
C0805C106K8PACTU	Capacitor	C14, C15, C16, C17, C23, C24, C25, C26, C35, C36, C37, C38	CAPC2012X140N	C0805C106K8PACTU	12
CC0805JRNP09BN120	Capacitor	C18, C19	CAPC2012X70N	CC0805JRNP09BN120	2
CL21C330JBANNNC	Capacitor	C28	CAPC2012X75N	CL21C330JBANNNC	1
CL21C180JBANNNC	Capacitor	C29	CAPC2012X135N	CL21C180JBANNNC	1
C0603C475K8PACTU	Capacitor	C31, C32, C50	CAPC1608X85N	C0603C475K8PACTU	3
C0603COG1H680K030BA	Capacitor	C39, C40	C0603_Commercial	C0603COG1H680K030BA	2
GRM155R61A474KE15J	Capacitor	C44	CAPC1005X55N	GRM155R61A474KE15J	1
GRM1555C1H270JA01D	Capacitor	C45, C46	CAPC1005X55N	GRM1555C1H270JA01D	2
C1608X5R0J226M080AC	Capacitor	C58, C59, C66, C67	C1608_Commercial	C1608X5R0J226M080AC	4
C1005COG1H221J050BA	Capacitor	C75	C1005_Commercial	C1005COG1H221J050BA	1
BLM41PG102SN1L	Ferrite Bead	FB1	BLM41PG102SH1L	BLM41PG102SN1L	1
BLM21AG121SN1D	Filter	FL1	BLM21AG102BH1J	BLM21AG121SN1D	1
FT230XS-R	Integrated Circuit	IC1	SOP64P599X175-16N	FT230XS-R	1
NL27WZ07DFT2G	Integrated Circuit	IC2, IC4, IC6	SOT65P210X110-6N	NL27WZ07DFT2G	3
MAX13202EALT+	Integrated Circuit	IC3, IC16	MAX13202EALT	MAX13202EALT+	2
MAX6816EU8+T	Integrated Circuit	IC5	MAX812REUST	MAX6816EU8+T	1
TPS62060DSGR	Integrated Circuit	IC7, IC8, IC9, IC10, IC13, IC14	SOT50P200X200X80Q9N	TPS62060DSGR	6
MAX4948ETG+	Integrated Circuit	IC11	QFN50P400X400X80-25N	MAX4948ETG+	1
FT4222HQ-D-R	Integrated Circuit	IC12	QFN50P500X500X90-33N	FT4222HQ-D-R	1
MAX13202EALT+T	Integrated Circuit	IC15	MAX13202EALTT	MAX13202EALT+T	1
IS25LP128-JBLE	Integrated Circuit	IC17	SOIC127P790X216-8N	IS25LP128-JBLE	1
SPH0645LM4H-1-8	Integrated Circuit	IC18	SPH0645LM4H18	SPH0645LM4H-1-8	1
PEC04DAAN	Connector	J1, J2, J5	1016X508X838P	PEC04DAAN	3
PEC02SAAN	Connector	J3	HDRV8W64P254_2X4-X2_508K254X838P	PEC02SAAN	1
47346-0001	Connector	J4, J11	usb conn	47346-0001	2
PEC00SAAN	Connector	J6	HDRV5W64P0X254_1X5_1270X254X858P	PEC00SAAN	1
3220-10-0300-00-TR	Connector	J7, J8	322010030000TR	3220-10-0300-00-TR	2
SSW-124-01-T-S	Connector	J9	SAMTEC_SSW-124-01-T-S	SSW-124-01-T-S	1
PEC03SAAN	Connector	J12, J13	HDRV3W64P0X254_X3_762X254X838P	PEC03SAAN	2
M52-5050545	Connector	J14	M52-5050545	M52-5050545	1
IHP2020CZER1R0M8A	Inductor	L1, L2, L3, L4, L5, L6	INDPM552X300N	IHP2020CZER1R0M8A	6
HSMR-C150	LED	LED1	LEDC3216X120N	HSMR-C150	1
MAX78000EXG+	Integrated Circuit	MAX1	max78000	MAX78000EXG+	1
Header 10X2	Header, 10-Pin, Dual row	P1	HDR2X10	Header 10X2	1
ERJ-2RKF4992X	Resistor	R1, R2	ERJ2R (0402)	ERJ-2RKF4992X	2
ERJ-2RKF27R0X	Resistor	R3, R5	ERJ2R (0402)	ERJ-2RKF27R0X	2
ERJ3EKF2701V	Resistor	R4	ERJ3EK (0603)	ERJ3EKF2701V	1
RT0805BRD07111KL	Resistor	R6, R7	RESC2012X60N	RT0805BRD07111KL	2
CRCW0402499KFKED	Resistor	R8, R9	RESC1005X40N	CRCW0402499KFKED	2
CRCW0402102KFKED	Resistor	R10	RESC1005X40N	CRCW0402102KFKED	1
CRCW0402100KFKED	Resistor	R11, R15, R16, R17	RESC1005X40N	CRCW0402100KFKED	4
CRCW0402200KFKED	Resistor	R12	RESC1005X40N	CRCW0402200KFKED	1
CRCW0402374KFKED	Resistor	R13	RESC1005X40N	CRCW0402374KFKED	1
RC0603FR-07120KL	Resistor	R14	RESC1608X55N	RC0603FR-07120KL	1
ERJ-2RKF1004X	Resistor	R18	ERJ2R (0402)	ERJ-2RKF1004X	1
ERJ-2RKF33R2X	Resistor	R19	ERJ2R (0402)	ERJ-2RKF33R2X	1
B3S-1000P	Switch	S1, S2, S3, S4	B3S1000P	B3S-1000P	4
ABM3-12.000MHz-D2Y-T	Crystal or Oscillator	Y1	ABM38000MHzD2YT	ABM3-12.000MHz-D2Y-T	1
SG-2105TF_12.2880ML3	Crystal or Oscillator	Y2	SG2105TF122880ML3	SG-2105TF_12.2880ML3	1
ABS07-32.768kHz-6	Crystal or Oscillator	Y3	ABS0732768KHZ6T	ABS07-32.768kHz-6	1