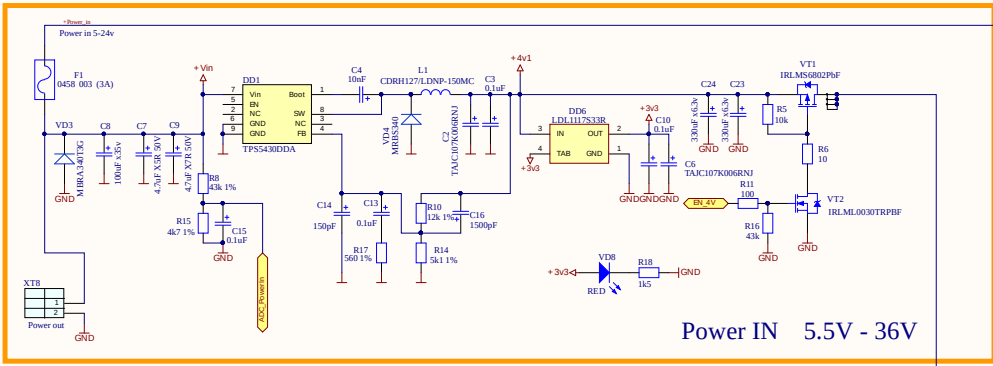
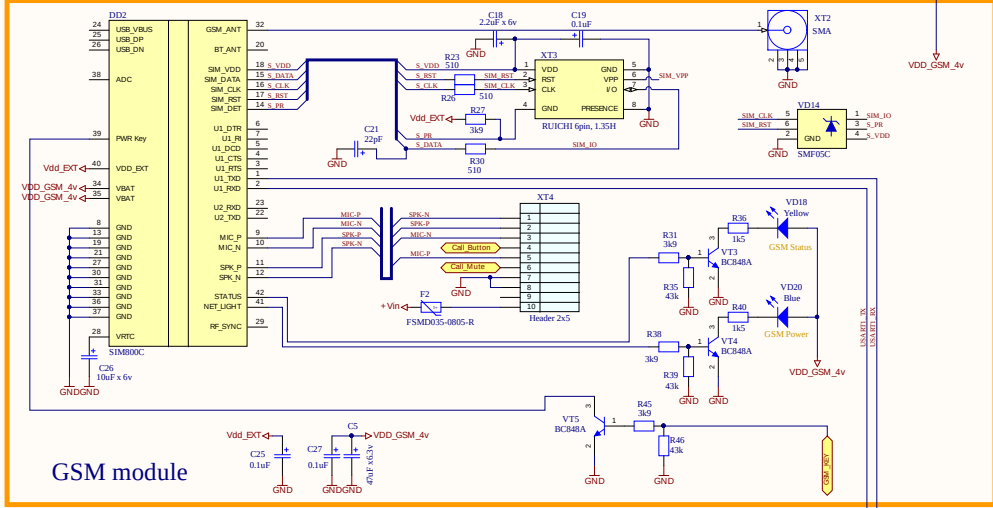
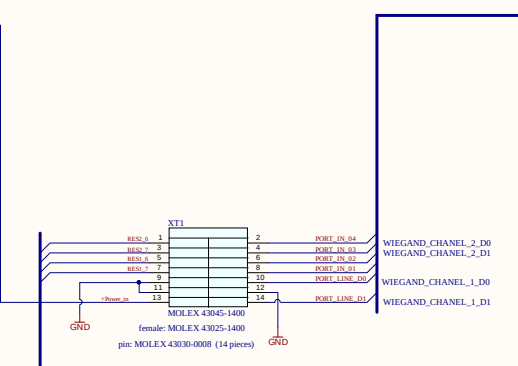
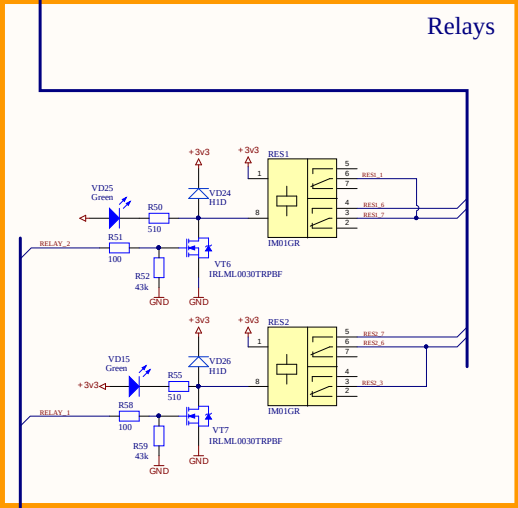
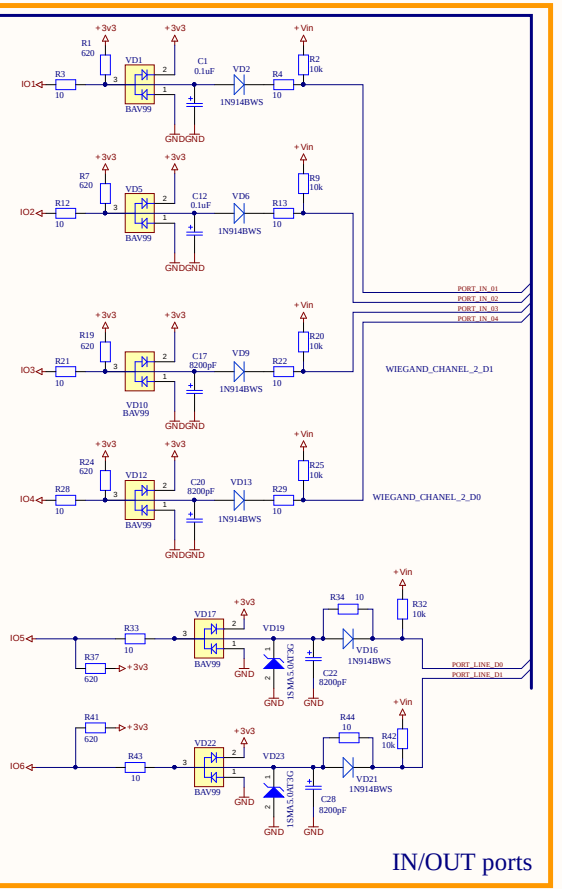
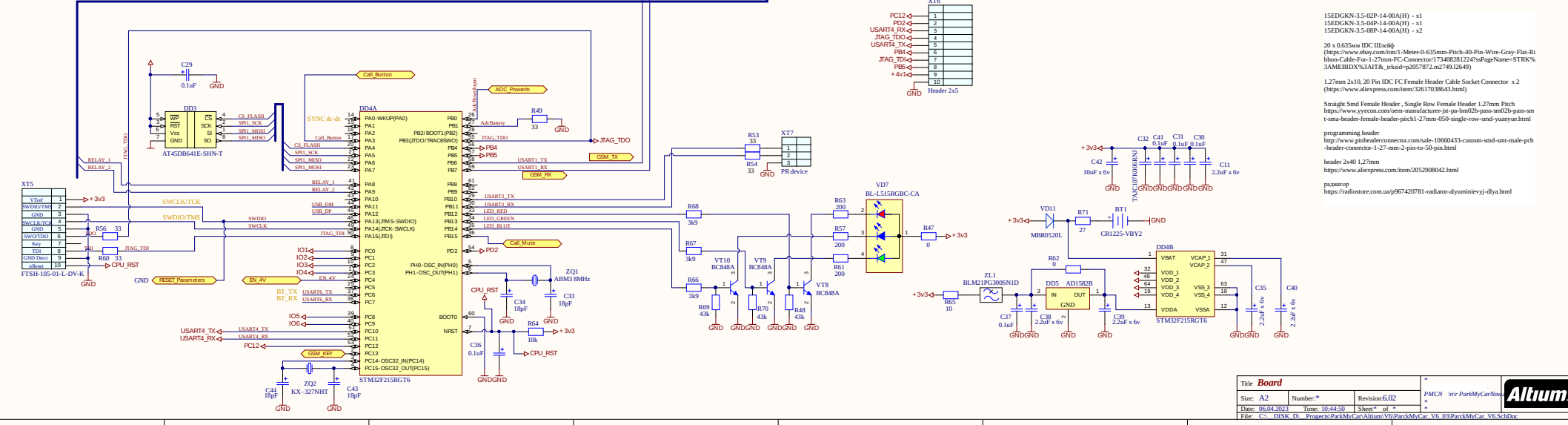




Board rev. 6.03

XT1

VD3

F1

C8

RES1

RES2

VD26

C3

C35

VD24

VD25

VD15

VD14

VD13

R59

C2

R7

C36

VD12

VD11

VD10

VD9

VD8

VD7

VD6

VD5

VD4

VD3

VD2

VD1

VD0

VD03

VD04

VD05

VD06

VD07

VD08

VD09

VD10

VD11

VD12

VD13

VD14

VD15

VD16

VD17

VD18

VD19

VD20

VD21

VD22

VD23

VD24

VD25

VD26

VD27

VD28

VD29

VD30

VD31

VD32

VD33

VD34

VD35

VD36

VD37

VD38

VD39

VD40

VD41

VD42

VD43

VD44

VD45

VD46

VD47

VD48

VD49

VD50

VD51

VD52

VD53

VD54

VD55

VD56

VD57

VD58

VD59

VD60

VD61

VD62

VD63

VD64

VD65

VD66

VD67

VD68

VD69

VD70

VD71

VD72

VD73

VD74

VD75

VD76

VD77

VD78

VD79

VD80

VD81

VD82

VD83

VD84

VD85

VD86

VD87

VD88

VD89

VD90

VD91

VD92

VD93

VD94

VD95

VD96

VD97

VD98

VD99

VD100

VD101

VD102

VD103

VD104

VD105

VD106

VD107

VD108

VD109

VD110

VD111

VD112

VD113

VD114

VD115

VD116

VD117

VD118

VD119

VD120

VD121

VD122

VD123

VD124

VD125

VD126

VD127

VD128

VD129

VD130

VD131

VD132

VD133

VD134

VD135

VD136

VD137

VD138

VD139

VD140

VD141

VD142

VD143

VD144

VD145

VD146

VD147

VD148

VD149

VD150

VD151

VD152

VD153

VD154

VD155

VD156

VD157

VD158

VD159

VD160

VD161

VD162

VD163

VD164

VD165

VD166

VD167

VD168

VD169

VD170

VD171

VD172

VD173

VD174

VD175

VD176

VD177

VD178

VD179

VD180

VD181

VD182

VD183

VD184

VD185

VD186

VD187

VD188

VD189

VD190

VD191

VD192

VD193

VD194

VD195

VD196

VD197

VD198

VD199

VD200

VD201

VD202

VD203

VD204

VD205

VD206

VD207

VD208

VD209

VD210

VD211

VD212

VD213

VD214

VD215

VD216

VD217

VD218

VD219

VD220

VD221

VD222

VD223

VD224

VD225

VD226

VD227

VD228

VD229

VD230

VD231

VD232

VD233

VD234

VD235

VD236

VD237

VD238

VD239

VD240

VD241

VD242

VD243

VD244

VD245

VD246

VD247

VD248

VD249

VD250

VD251

VD252

VD253

VD254

VD255

VD256

VD257

VD258

VD259

VD260

VD261

VD262

VD263

VD264

VD265

VD266

VD267

VD268

VD269

VD270

VD271

VD272

VD273

VD274

VD275

VD276

VD277

VD278

VD279

VD280

VD281

VD282

VD283

VD284

VD285

VD286

VD287

VD288

VD289

VD290

VD291

VD292

VD293

VD294

VD295

VD296

VD297

VD298

VD299

VD300

VD301

VD302

VD303

VD304

VD305

VD306

VD307

VD308

VD309

VD310

VD311

VD312

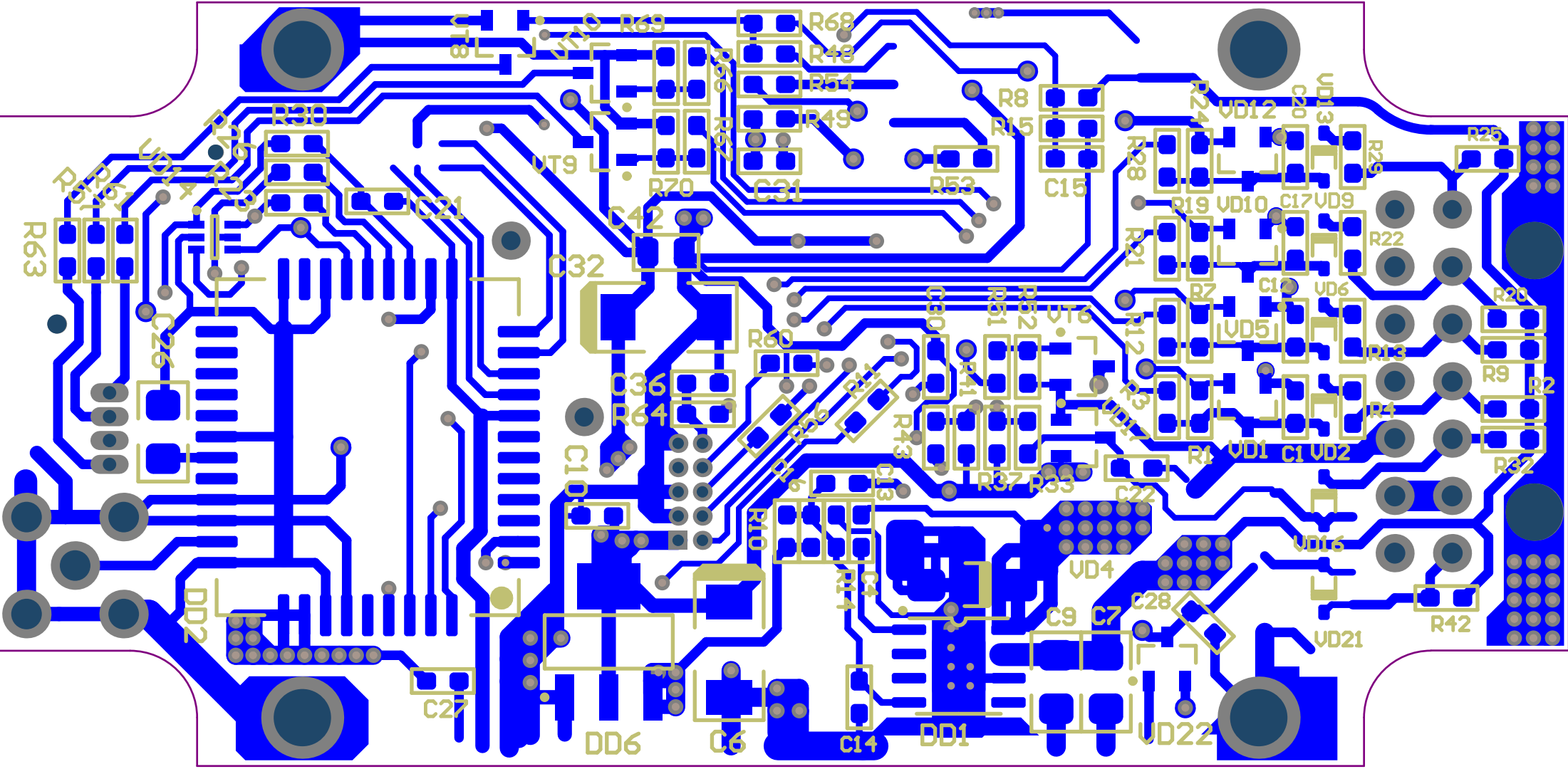
VD313

VD314

VD315

VD316

VD317



Board rev. 6.03

XT1

VD3

F1

RES2

RES1

C8

L1

C3

R17

C2

VD26

VT7

R59

R55

R58

C41

C40

VD15

VD25

R50

VD24

C35

DD3

DD4

10

9

XT5

1

2

VD11

R71

R16

R46

R38

R31

R35

R27

R18

C25

C24

C23

R5

VT1

VT2

VT3

VT4

VT5

VT6

C29

R65

VD8

C11

C38

C37

C33

C34

C39

R62

ZQ1

ZQ2

C43

R47

R31

R35

R27

R18

C25

C24

C23

R5

VT1

VT2

VT3

VT4

VT5

VT6

VT7

VT8

VT9

VT10

VT11

VT12

VT13

VT14

VT15

VT16

VT17

VT18

XT3

Vcc

C1

GND

C5

RST

C2

Vpp

C6

CLK

C3

IO

C7

GND

C18

GND

C19

GND

C20

GND

C21

GND

C22

GND

C23

GND

C24

GND

C25

GND

C26

GND

C27

GND

C28

GND

C29

GND

C30

GND

C31

GND

C32

GND

C33

GND

C34

GND

C35

GND

C36

GND

C37

GND

C38

GND

C39

GND

C40

GND

C41

GND

C42

GND

C43

GND

C44

GND

C45

GND

C46

GND

C47

GND

C48

GND

C49

GND

C50

GND

C51

GND

C52

GND

C53

GND

C54

GND

C55

GND

C56

GND

C57

GND

C58

GND

C59

GND

C60

GND

C61

GND

C62

GND

C63

GND

C64

GND

C65

GND

C66

GND

C67

GND

C68

GND

C69

GND

C70

GND

C71

GND

C72

GND

C73

GND

C74

GND

C75

GND

C76

GND

C77

GND

C78

GND

C79

GND

C80

GND

C81

GND

C82

GND

C83

GND

C84

GND

C85

GND

C86

GND

C87

GND

C88

GND

C89

GND

C90

GND

C91

GND

C92

GND

C93

GND

C94

GND

C95

GND

C96

GND

C97

GND

C98

GND

C99

GND

C100

GND

C101

GND

C102

GND

C103

GND

C104

GND

C105

GND

C106

GND

C107

GND

C108

GND

C109

GND

C110

GND

C111

GND

C112

GND

C113

GND

C114

GND

C115

GND

C116

GND

C117

GND

C118

GND

C119

GND

C120

GND

C121

GND

C122

GND

C123

GND

C124

GND

C125

GND

C126

GND

C127

GND

C128

GND

C129

GND

C130

GND

C131

GND

C132

GND

C133

GND

C134

GND

C135

GND

C136

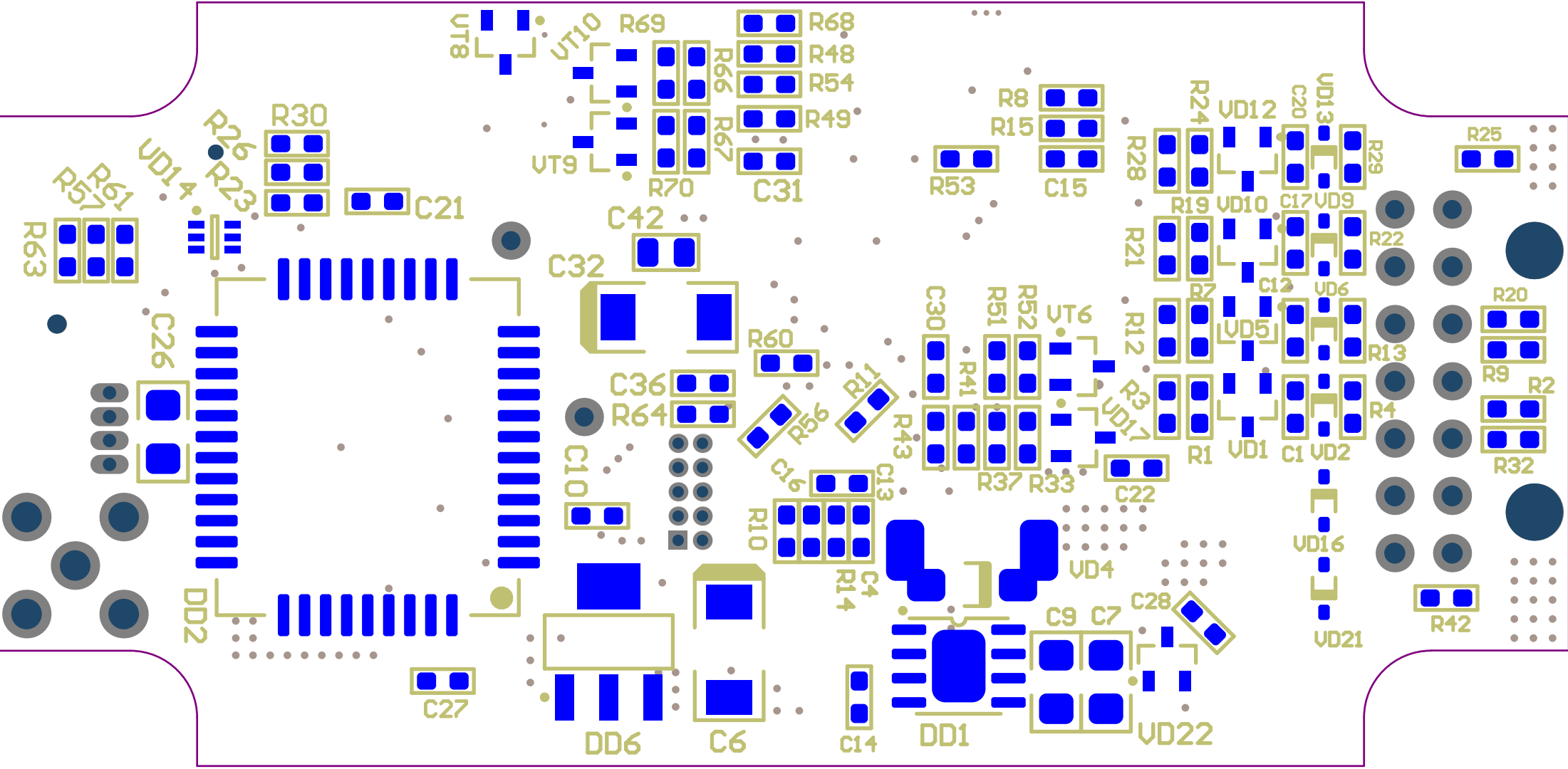
GND

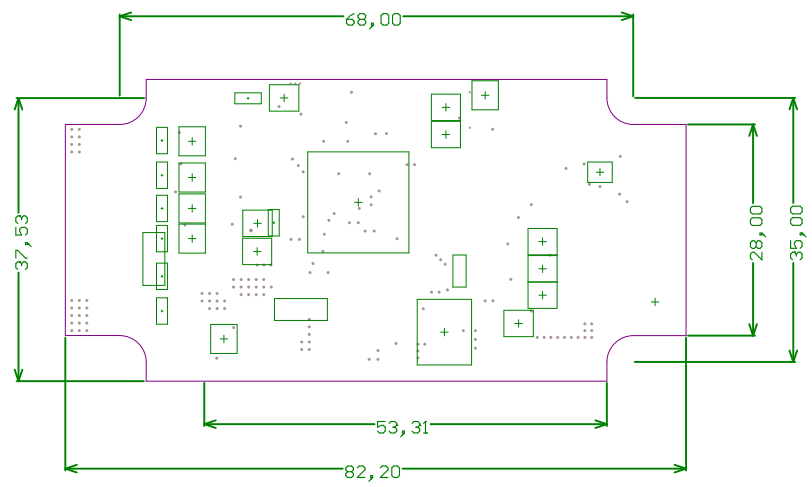
C137

GND

C138

GND





Comment	Description	Designator	Footprint	LibRef	Quantity
CR1225-VB12	Coin battery	BT1	Battery CR1225-VB12	Battery	1
0.1uF		C1, C3, C10, C12, C13, C15, C19, C25, C27, C29, C30, C31, C36, C37, C41	CR0603_Capacitor	Capacitor	15
TA3C107K006RNJ	100uF 6.3v Tantalum, 100uF, 6.3v Tantalum, 100uF, 6.3v Tantalum	C2, C6, C32	CR6032	Capacitor	3
10nF		C4	CR0603_Capacitor	Capacitor	1
47uF x6.3v		C5	Capacitor smd D5.3 (C)	Capacitor	1
4.7uF X5R 50V		C7	CR1206	Capacitor	1
100uF x35v		C8	Capacitor smd D6.6 (D6)	Capacitor	1
4.7uF X7R 50V		C9	CR1206	Capacitor	1
2.2uF x 6v		C11, C18, C35, C38, C39, C40	CR0805	Capacitor	6
150pF		C14	CR0603_Capacitor	Capacitor	1
1500pF		C16	CR0603_Capacitor	Capacitor	1
8200pF		C17, C20, C22, C28	CR0603_Capacitor	Capacitor	4
22pF		C21	CR0603_Capacitor	Capacitor	1
330uF x6.3v		C23, C24	Capacitor smd D6.6 (D6)	Capacitor	2
10uF x 6v		C26	CR1206	Capacitor	1
18pF		C33, C34, C43, C44	CR0603_Capacitor	Capacitor	4
10uF x 6v		C42	CR0805	Capacitor	1
TP554300DA	Wide Input Range, Step-Down Converter	DD1	SO8-P	TP55430	1
SIM800C	GSM module	DD2	SIM800C	SIM800C	1
AT45DB641E-SHN-T		DD3	SOIC_Bigger	AT45DB161D-SU	1
STM32F215RGTH	ARM Cortex-M3 32-bit MCU, 1024 KB Flash, 128 KB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	DD4	STM-LQFP64_N	STM32F215RGTH	1
LDL1117S33R	800mA Low-Dropout Linear Regulator, 4-pin SOT-223	DD6	MP04A_N	LM1117MP-3.3	1
0458 003 (3A)	Fuse	F1	FUSE 458 Series 1206	Fuse	1
CDRH127/LDNP-150MC	Inductor	L1	MSS1278_xxx	L	1
620		R1, R7, R19, R24, R37, R41	CR0603_RES	Resistor	6
10k		R2, R5, R9, R20, R25, R32, R42, R64	CR0603_RES	Resistor	8
10		R3, R4, R5, R12, R13, R21, R22, R28, R29, R33, R43, R65	CR0603_RES	Resistor	12
43k 1%		R8	CR0603_RES	Resistor	1
12k 1%		R10	CR0603_RES	Resistor	1
100		R11, R51, R58	CR0603_RES	Resistor	3
5k1 1%		R14	CR0603_RES	Resistor	1
4k7 1%		R15	CR0603_RES	Resistor	1
43k		R16, R35, R39, R46, R48, R52, R59, R69, R70	CR0603_RES	Resistor	9
560 1%		R17	CR0603_RES	Resistor	1
1k5		R18, R36, R40	CR0603_RES	Resistor	3
510		R23, R26, R30, R50, R55	CR0603_RES	Resistor	5
3k9		R27, R31, R38, R45, R66, R67, R68	CR0603_RES	Resistor	7
0		R47, R62	CR0603_RES	Resistor	2
33		R49, R53, R54, R56, R60	CR0603_RES	Resistor	5
200		R57, R61, R63	CR0603_RES	Resistor	3
27		R71	CR1210_RES	Resistor	1
IM01GR	Relay	RES1, RES2	Relay IM01GR	Relay IM01	2
BAV99	Silicon Switching Diode, SOT23, Reel, Green	VD1, VD5, VD10, VD12, VD17, VD22	INF-SOT23_N	BAV99	6
1N914BWS	Diode	VD2, VD6, VD9, VD13, VD16, VD21	SOD323	Diode	6
MBRA340T3G	Diode	VD3, VD4	DO214AC	Diode	2
BL-1515RGB-C-A	RGB Led	VD7	LED_RGB	Led_RGB_SMM	1
RED	Led Red	VD8	LED_0805_RED	LED	1
MBR0520L	Diode	VD11	SOD-123	Diode	1
SMF05C	Craftsmanpow	VD14	CS70-6L	SMF05C	1
Green	Led Green	VD15, VD25	LED_0805_Green	LED	2
Yellow	Led Yellow	VD18	LED_0805_Yellow	LED	1
Blue	Led Blue	VD20	LED_0805_BLUE	LED	1
H1D	Diode	VD24, VD26	SOD323	Diode	2
IRLM56802PbF	P-channel, -20V, 5.6A	VT1	SOT-23-6	IRLM56802PbF	1
IRML0030TRPBF	HEXFET Power MOSFET	VT2, VT6, VT7	SOT-23_N	IRML2402	3
BC848A	NPN Silicon AF Transistor, 30 V VCEQ, 100 mA IC, SOT23, Reel, Green	VT3, VT4, VT5, VT8, VT9, VT10	INF-SOT23_N	BC848A	6
MOLEX 43045-1400		XT1	HEADER Micro-Fit 2x7 3.0	Header 2x7	1
SMA	Connector SMA	XT2	CON-REV5MA_90g	CON_SMA	1
SIM8060-6-0-14-00-A		XT3	SIM Card holder nano SIM8060	SIM card holder	1
FTSH-105-01-L-DV-K	P.L 2.27mm 2x5 pins	XT5	HEADER 5x2 P.L2	Header 2x5	1
BLM21PG3005N1D	filter	ZL1	CR0805_Inductor	BLM21	1
ABM3 8MHz	Quartz Crystal	ZQ1	ZQ_ABM3 5.0-3.2_smd	ZQ	1
KX-327NHT	Quartz Crystal	ZQ2	KX-327NHT	ZQ	1

