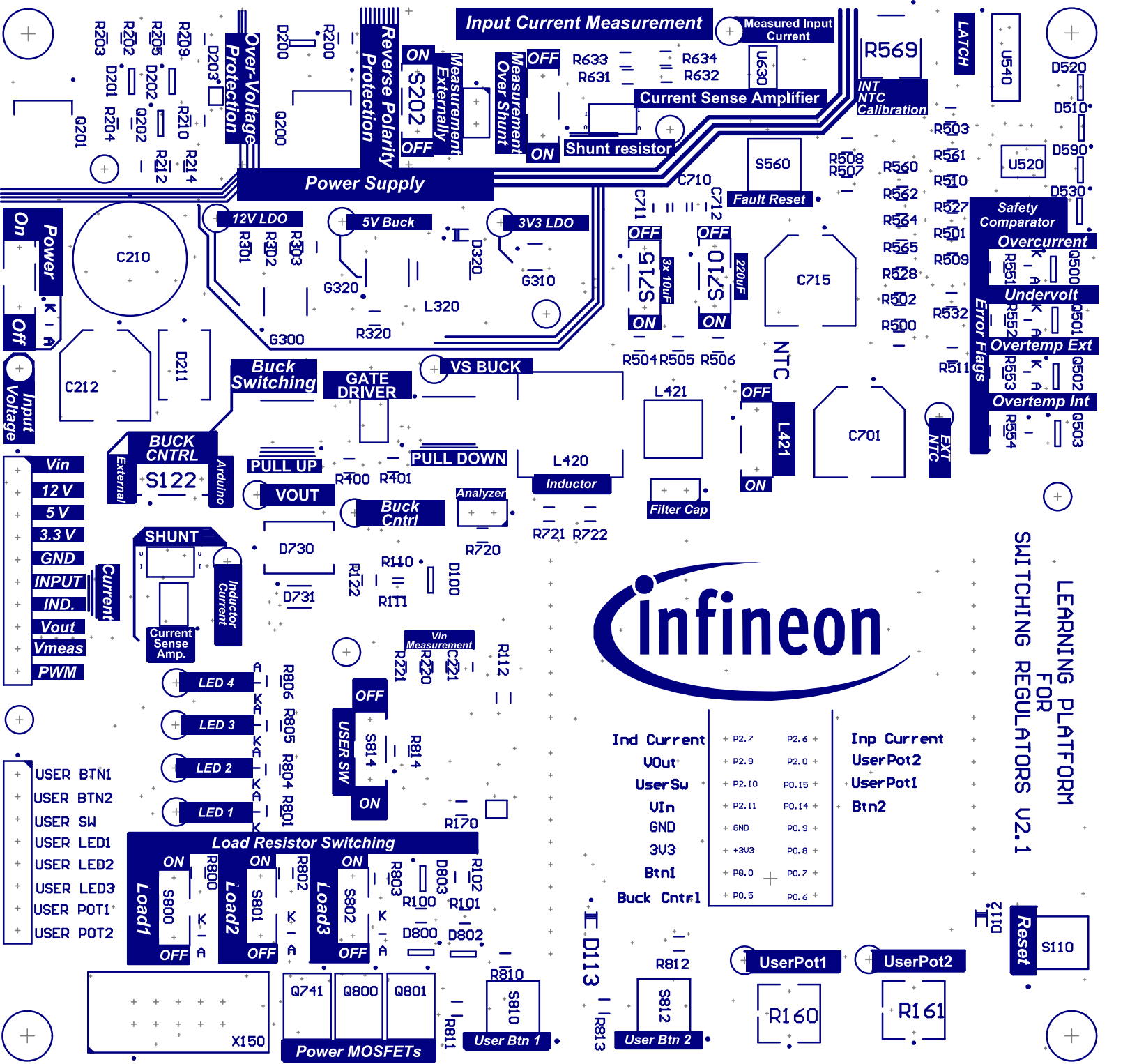
Input Current Measurement
Measured Input Current
Current Sense Amplifier
Shunt resistor
Over-Voltage Protection
Reverse Polarity Protection
Measurement Externally
Measurement Over Shunt
Power Supply
12V LDO
5V Buck
3V3 LDO
Power On
Off
Input Voltage
Buck Switching
GATE DRIVER
VS BUCK
BUCK CNTRL
External
Arduino
S122
PULL UP
PULL DOWN
VOUT
Buck Cntrl
Analyzer
Inductor
Filter Cap
NTC
INT NTC Calibration
LATCH
Fault Reset
Safety Comparator
Overcurrent
Undervolt
Overtemp Ext
Overtemp Int
Error Flags
EXT NTC
Vin
12 V
5 V
3.3 V
GND
INPUT
IND.
Vout
Vmeas
PWM
Current
SHUNT
Current Sense Amp.
Inductor Current
Vin Measurement
LED 4
LED 3
LED 2
LED 1
USER SW
USER BTN1
USER BTN2
USER SW
USER LED1
USER LED2
USER LED3
USER POT1
USER POT2
Load Resistor Switching
Load1
Load2
Load3
Power MOSFETs
User Btn 1
User Btn 2
UserPot1
UserPot2
Reset
Ind Current
VOut
UserSw
VIn
GND
3V3
Btn1
Buck Cntrl
Inp Current
UserPot2
UserPot1
Btn2
LEARNING PLATFORM FOR SWITCHING REGULATORS V2.1
infineon

C561
C560
C533
C530
C505
C520
C506
C540
C500
C222
C221
C230
P219
J01X
X100
C312
C310
C324
C321
C320
C301
C300
C213
C400
C402
C404
C220
C201
C404
NTC_EXT
VOut Meas
VIn Meas
User Pot1
Ind Current
In Current
GND
GND
5V
RESET
USER BTN1
CNTRL1
CNTRL2
CNTRL3
BUCK CNTRL
USER BTN2
SHUTDOWN
USER LED1
USER LED2
USER LED3
USER SW
USER LED4
GND
User Pot2
C183
I183
E183
XMC2GO