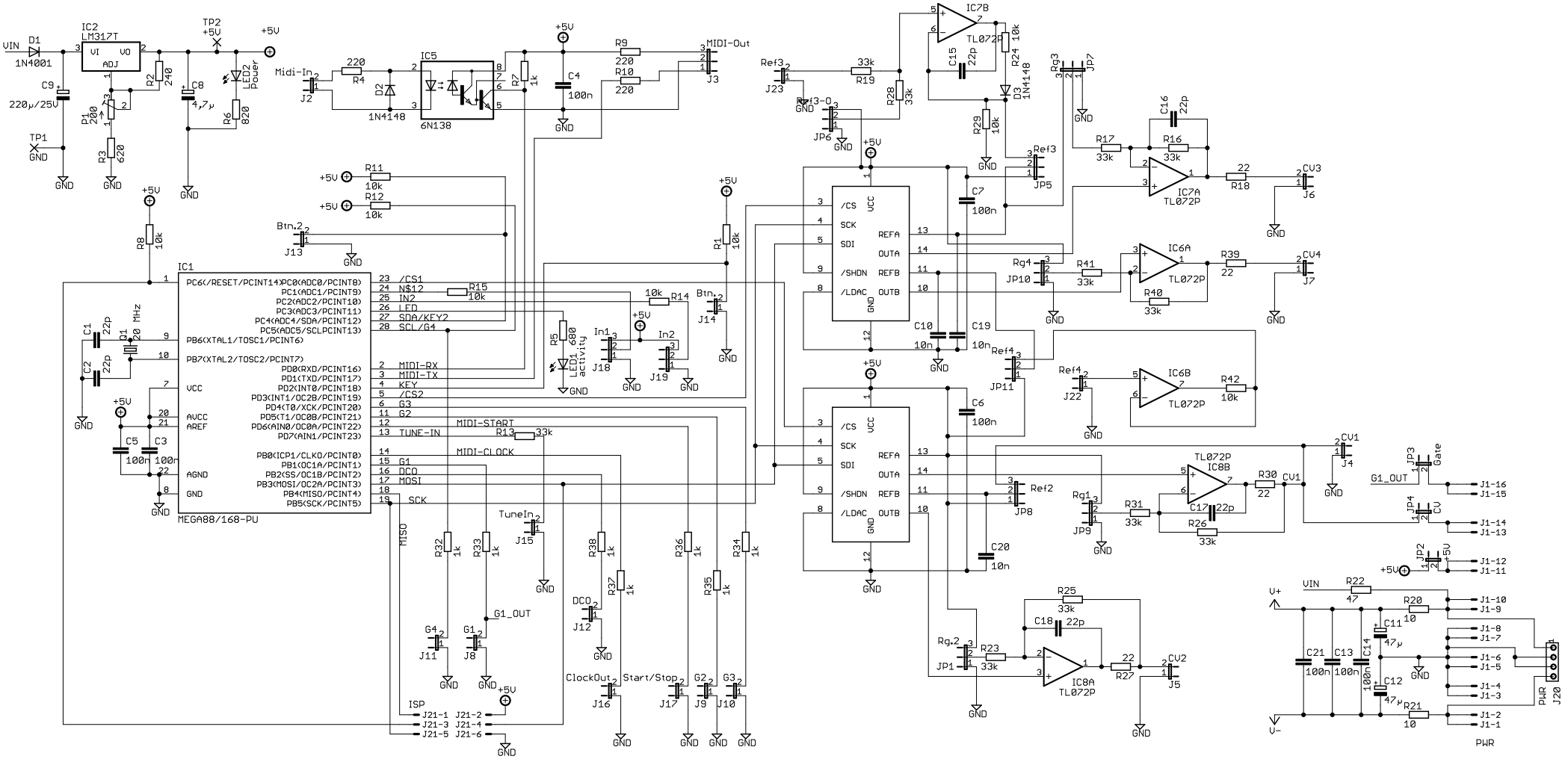
VIN
D1
1N4001
IC2
LM317T
VI
VO
ADJ
TP2
+5V
LED2
Power
C9
220µ/25V
R2
240
C8
4,7µ
R1
200
R3
620
R6
820
TP1
GND
Midi-In
J2
R4
220
D2
1N4148
IC5
6N138
R7
1k
C4
100n
R9
220
R10
220
MIDI-Out
J3
IC1
MEGA88/168-PU
PC6(/RESET/PCINT14)
PC0(ADC0/PCINT8)
PC1(ADC1/PCINT9)
PC2(ADC2/PCINT10)
PC3(ADC3/PCINT11)
PC4(ADC4/SDA/PCINT12)
PC5(ADC5/SCLPCINT13)
PB6(XTAL1/TOSC1/PCINT6)
PB7(XTAL2/TOSC2/PCINT7)
PD0(RXD/PCINT16)
PD1(TXD/PCINT17)
PD2(INT0/PCINT18)
PD3(INT1/OC2B/PCINT19)
PD4(T0/XCK/PCINT20)
PD5(T1/OC0B/PCINT21)
PD6(AIN0/OC0A/PCINT22)
PD7(AIN1/PCINT23)
PB0(ICP1/CLKO/PCINT0)
PB1(OC1A/PCINT1)
PB2(SS/OC1B/PCINT2)
PB3(MOSI/OC2A/PCINT3)
PB4(MISO/PCINT4)
PB5(SCK/PCINT5)
AVCC
AREF
AGND
VCC
/CS1
N$12
IN2
LED
SDA/KEY2
SCL/G4
MIDI-RX
MIDI-TX
KEY
/CS2
G3
G2
TUNE-IN
MIDI-START
MIDI-CLOCK
G1
DCO
MOSI
SCK
MISO
R11
10k
R12
10k
R8
10k
R1
10k
R15
10k
R13
33k
R14
10k
Btn.
J13
J14
C1
22p
C2
22p
D1
20 MHz
C5
100n
C3
100n
R5
680
LED1
activity
In1
In2
J18
J19
TuneIn
J15
R32
1k
R33
1k
R38
1k
R37
1k
R36
1k
R35
1k
R34
1k
G4
G1
J11
J8
G1_OUT
DCO
J12
ClockOut
J16
Start/Stop
J17
G2
J9
G3
J10
ISP
J21-1
J21-2
J21-3
J21-4
J21-5
J21-6
IC7B
TL072P
C15
22p
R24
10k
D3
1N4148
Ref3
J23
Ref3-0
JP6
R19
33k
R28
33k
R29
10k
Rg3
JP7
Ref3
JP5
C7
100n
/CS
SCK
SDI
/SHDN
/LDAC
VCC
REFA
OUTA
REFB
OUTB
GND
C10
10n
C19
10n
Ref4
JP11
C6
100n
C20
10n
Ref2
JP8
Rg1
JP9
Rg2
JP1
R23
33k
R25
33k
C18
22p
IC8A
TL072P
R27
22
CV2
J5
IC7A
TL072P
R17
33k
C16
22p
R16
33k
R18
22
CV3
J6
IC6A
TL072P
Rg4
JP10
R41
33k
R40
33k
R39
22
CV4
J7
IC6B
TL072P
Ref4
J22
R42
10k
IC8B
TL072P
R31
33k
C17
22p
R26
33k
R30
22
CV1
J4
JP3
Gate
G1_OUT
JP4
CV
J1-16
J1-15
J1-14
J1-13
JP2
+5V
J1-12
J1-11
V+
VIN
R22
47
R20
10
C11
47µ
C21
100n
C13
100n
C14
100n
C12
47µ
R21
10
V-
J1-10
J1-9
J1-8
J1-7
J1-6
J1-5
J1-4
J1-3
J1-2
J1-1
PWR
J20
PWR