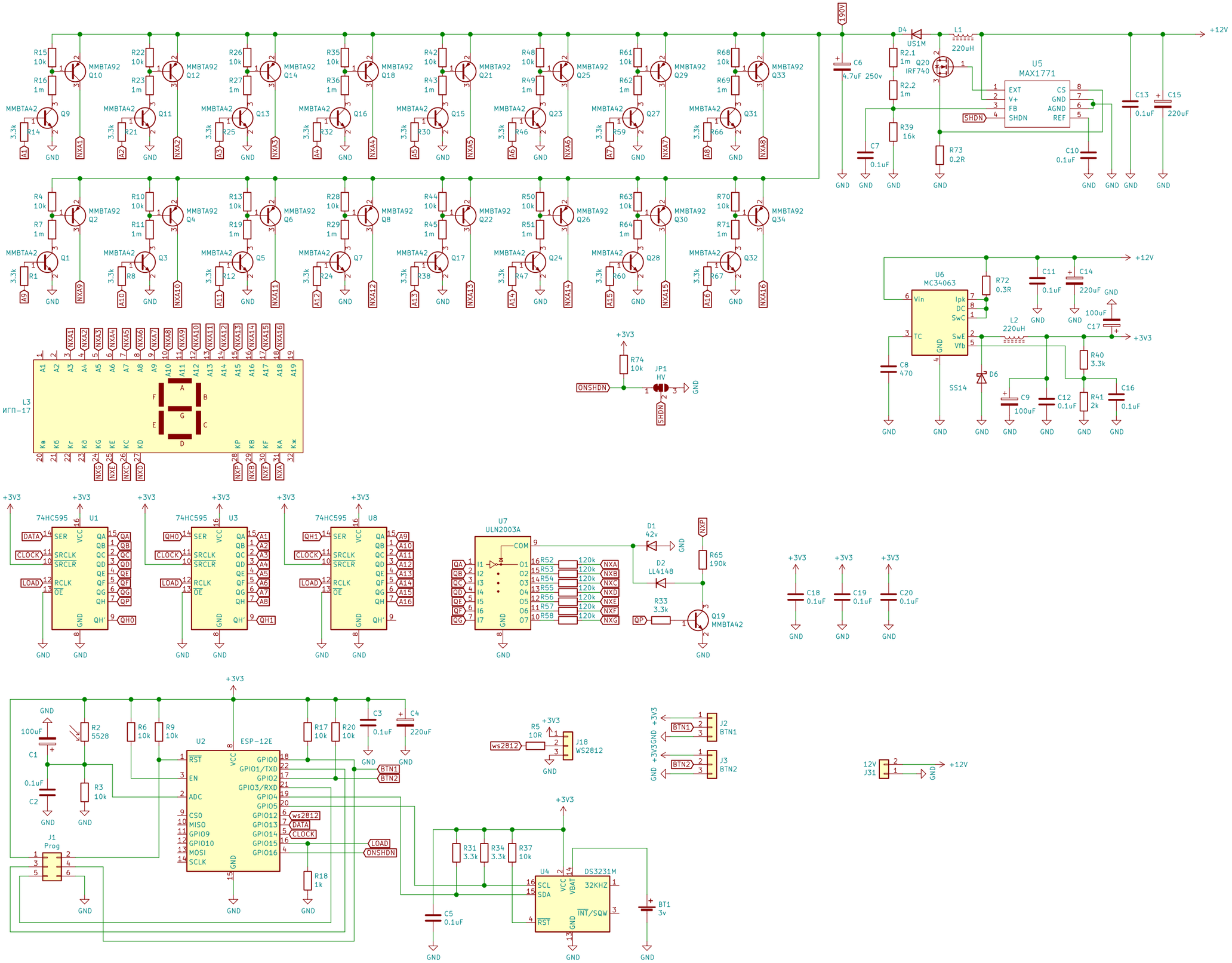
190V
+12V
D4
US1M
L1
220uH
R2.1
1m
Q20
IRF740
R2.2
1m
R39
16k
R73
0.2R
C6
4.7uF 250v
C7
0.1uF
U5
MAX1771
EXT
V+
FB
SHDN
CS
GND
AGND
REF
C10
0.1uF
C13
0.1uF
C15
220uF
GND
MMBTA92
MMBTA42
NXA1
NXA2
NXA3
NXA4
NXA5
NXA6
NXA7
NXA8
NXA9
NXA10
NXA11
NXA12
NXA13
NXA14
NXA15
NXA16
U6
MC34063
Vin
Ipk
DC
SwC
TC
SwE
Vfb
R72
0.3R
C11
0.1uF
C14
220uF
100uF
C17
+3V3
L2
220uH
C8
470
SS14
D6
C9
100uF
C12
0.1uF
R40
3.3k
R41
2k
C16
0.1uF
L3
ИГП-17
ONSHDN
R74
10k
JP1
HV
SHDN
74HC595
U1
U3
U8
SER
SRCLK
SRCLR
RCLK
OE
VCC
QA
QB
QC
QD
QE
QF
QG
QH
QH'
DATA
CLOCK
LOAD
U7
ULN2003A
COM
D1
42v
D2
LL4148
R65
190k
R33
3.3k
Q19
MMBTA42
C18
0.1uF
C19
0.1uF
C20
0.1uF
ESP-12E
U2
RST
EN
ADC
CS0
MISO
GPIO9
GPIO10
MOSI
SCLK
GPIO0
GPIO1/TXD
GPIO2
GPIO3/RXD
GPIO4
GPIO5
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
R2
5528
R6
10k
R9
10k
R17
10k
R20
10k
C3
0.1uF
C4
220uF
C1
100uF
C2
0.1uF
R3
10k
R18
1k
J1
Prog
BTN1
BTN2
R5
10R
ws2812
J18
WS2812
J2
BTN1
J3
BTN2
12V
J31
R31
3.3k
R34
3.3k
R37
10k
C5
0.1uF
U4
DS3231M
SCL
SDA
32KHZ
INT/SQW
BT1
3v