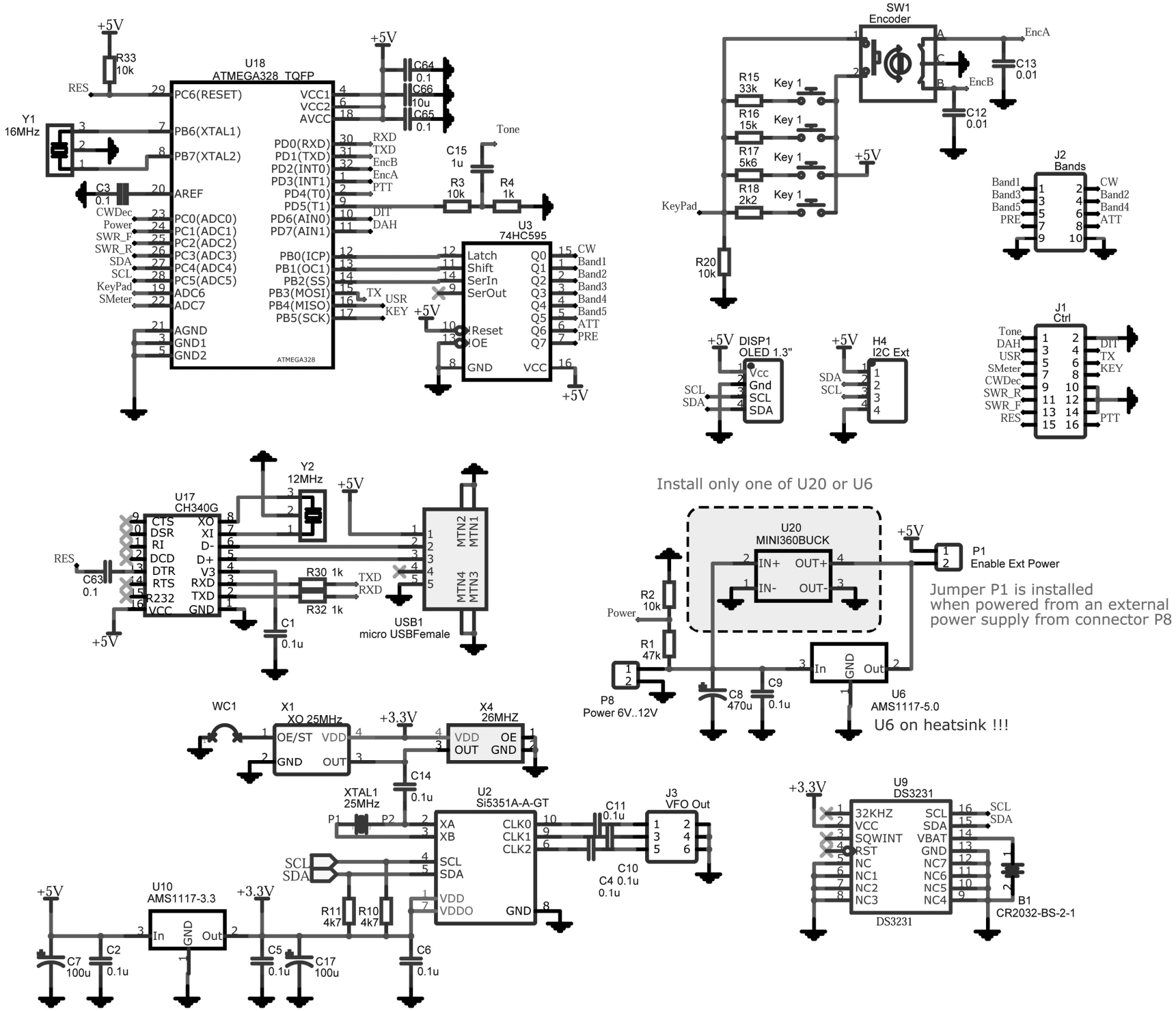
U18
ATMEGA328_TQFP
PC6(RESET)
PB6(XTAL1)
PB7(XTAL2)
AREF
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4)
PC5(ADC5)
ADC6
ADC7
AGND
GND1
GND2
VCC1
VCC2
AVCC
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1)
PB2(SS)
PB3(MOSI)
PB4(MISO)
PB5(SCK)
ATMEGA328
+5V
R33
10k
RES
Y1
16MHz
C3
0.1
CWDec
Power
SWR_F
SWR_R
SDA
SCL
KeyPad
SMeter
C64
0.1
C66
10u
C65
0.1
RXD
TXD
EncB
EncA
PTT
DIT
DAH
TX
USR
KEY
Tone
C15
1u
R3
10k
R4
1k
U3
74HC595
Latch
Shift
SerIn
SerOut
Reset
OE
GND
VCC
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
CW
Band1
Band2
Band3
Band4
Band5
ATT
PRE
SW1
Encoder
A
C
B
EncA
EncB
C13
0.01
C12
0.01
R15
33k
R16
15k
R17
5k6
R18
2k2
Key 1
KeyPad
R20
10k
J2
Bands
Band1
Band3
Band5
PRE
CW
Band2
Band4
ATT
J1
Ctrl
Tone
DAH
USR
SMeter
CWDec
SWR_R
SWR_F
RES
DIT
TX
KEY
PTT
DISP1
OLED 1.3"
Vcc
Gnd
SCL
SDA
H4
I2C Ext
U17
CH340G
CTS
DSR
RI
DCD
DTR
RTS
R232
VCC
XO
XI
D-
D+
V3
RXD
TXD
GND
C63
0.1
Y2
12MHz
R30 1k
R32 1k
C1
0.1u
USB1
micro USBFemale
MTN2
MTN1
MTN4
MTN3
Install only one of U20 or U6
U20
MINI360BUCK
IN+
OUT+
IN-
OUT-
P1
Enable Ext Power
Jumper P1 is installed
when powered from an external
power supply from connector P8
R2
10k
R1
47k
P8
Power 6V..12V
C8
470u
C9
0.1u
In
GND
Out
U6
AMS1117-5.0
U6 on heatsink !!!
WC1
X1
XO 25MHz
OE/ST
VDD
GND
OUT
+3.3V
X4
26MHZ
C14
0.1u
XTAL1
25MHz
P1
P2
U2
Si5351A-A-GT
XA
XB
SCL
SDA
VDD
VDDO
CLK0
CLK1
CLK2
GND
C11
0.1u
J3
VFO Out
C10
C4 0.1u
0.1u
R11
4k7
R10
4k7
U10
AMS1117-3.3
C7
100u
C2
0.1u
C5
0.1u
C17
100u
C6
0.1u
U9
DS3231
32KHZ
VCC
SQWINT
RST
NC
NC1
NC2
NC3
SCL
SDA
VBAT
GND
NC7
NC6
NC5
NC4
B1
CR2032-BS-2-1