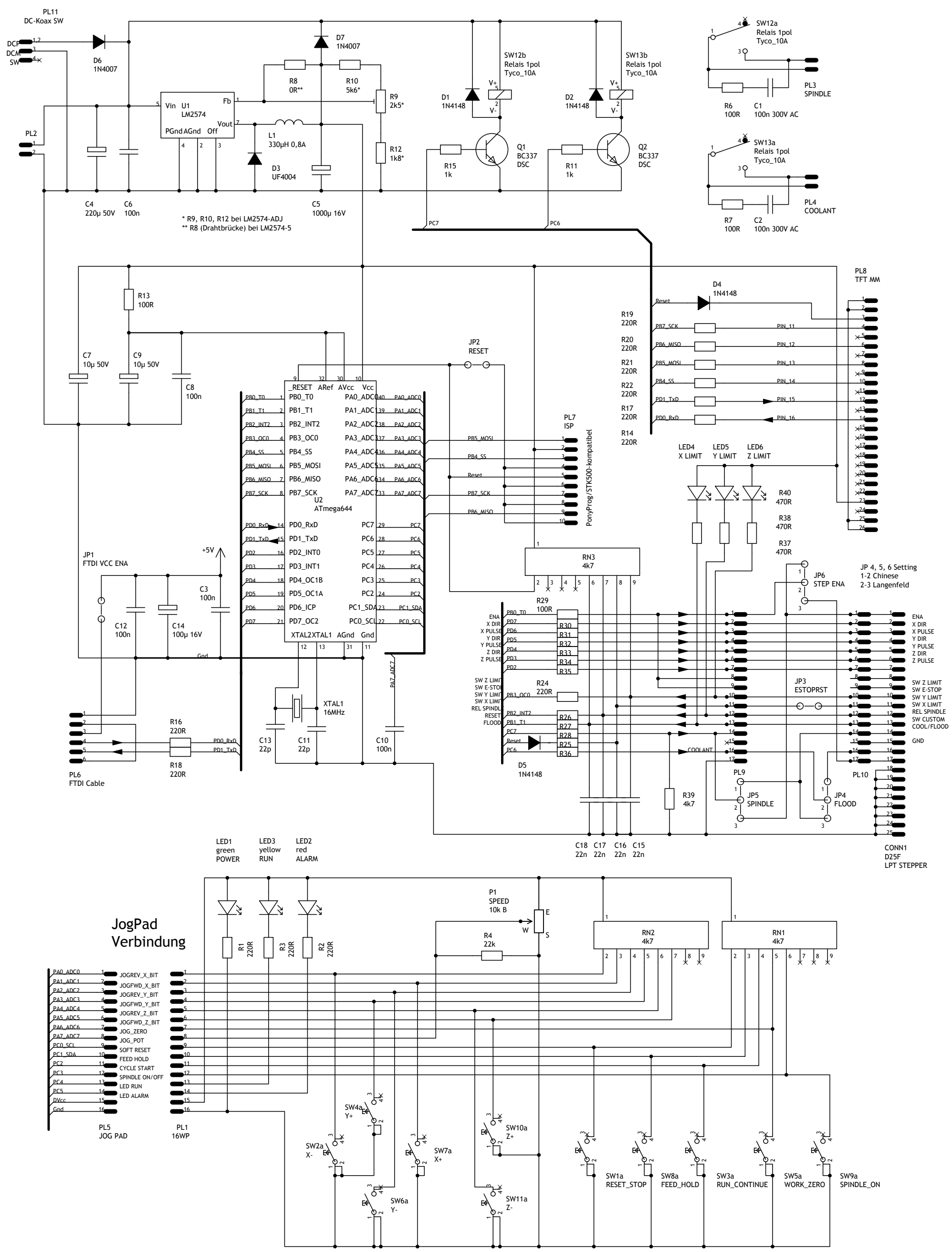
PL11
DC-Koax SW
DCP
DCM
SW
D6
1N4007
D7
1N4007
R8
0R**
R10
5k6*
R9
2k5*
R12
1k8*
U1
LM2574
Vin
Fb
Vout
PGnd AGnd Off
L1
330µH 0,8A
D3
UF4004
PL2
C4
220µ 50V
C6
100n
C5
1000µ 16V
* R9, R10, R12 bei LM2574-ADJ
** R8 (Drahtbrücke) bei LM2574-5
D1
1N4148
SW12b
Relais 1pol
Tyco_10A
D2
1N4148
SW13b
Relais 1pol
Tyco_10A
R15
1k
Q1
BC337
DSC
R11
1k
Q2
BC337
DSC
PC7
PC6
SW12a
Relais 1pol
Tyco_10A
PL3
SPINDLE
R6
100R
C1
100n 300V AC
SW13a
Relais 1pol
Tyco_10A
PL4
COOLANT
R7
100R
C2
100n 300V AC
R13
100R
C7
10µ 50V
C9
10µ 50V
C8
100n
JP2
RESET
D4
1N4148
PL8
TFT MM
R19
220R
R20
220R
R21
220R
R22
220R
R17
220R
R14
220R
PB7_SCK
PB6_MISO
PB5_MOSI
PB4_SS
PD1_TxD
PD0_RxD
PIN_11
PIN_12
PIN_13
PIN_14
PIN_15
PIN_16
_RESET ARef AVcc Vcc
PB0_T0
PB1_T1
PB2_INT2
PB3_OC0
PB4_SS
PB5_MOSI
PB6_MISO
PB7_SCK
PA0_ADC0
PA1_ADC1
PA2_ADC2
PA3_ADC3
PA4_ADC4
PA5_ADC5
PA6_ADC6
PA7_ADC7
U2
ATmega644
PD0_RxD
PD1_TxD
PD2_INT0
PD3_INT1
PD4_OC1B
PD5_OC1A
PD6_ICP
PD7_OC2
PC7
PC6
PC5
PC4
PC3
PC2
PC1_SDA
PC0_SCL
XTAL2 XTAL1 AGnd Gnd
PL7
ISP
PonyProg/STK500-kompatibel
LED4
X LIMIT
LED5
Y LIMIT
LED6
Z LIMIT
R40
470R
R38
470R
R37
470R
RN3
4k7
JP1
FTDI VCC ENA
+5V
C3
100n
C12
100n
C14
100µ 16V
Gnd
R16
220R
R18
220R
PL6
FTDI Cable
XTAL1
16MHz
C13
22p
C11
22p
C10
100n
R29
100R
R30
R31
R32
R33
R34
R35
R24
220R
R26
R27
R28
R25
R36
ENA
X DIR
X PULSE
Y DIR
Y PULSE
Z DIR
Z PULSE
SW Z LIMIT
SW E-STOP
SW Y LIMIT
SW X LIMIT
REL SPINDLE
RESET
FLOOD
COOLANT
D5
1N4148
JP6
STEP ENA
JP 4, 5, 6 Setting
1-2 Chinese
2-3 Langenfeld
JP3
ESTOPRST
SW CUSTOM
COOL/FLOOD
GND
PL9
JP5
SPINDLE
R39
4k7
JP4
FLOOD
PL10
CONN1
D25F
LPT STEPPER
C18
22n
C17
22n
C16
22n
C15
22n
LED1
green
POWER
LED3
yellow
RUN
LED2
red
ALARM
JogPad
Verbindung
R1
220R
R3
220R
R2
220R
P1
SPEED
10k B
R4
22k
RN2
4k7
RN1
4k7
JOGREV_X_BIT
JOGFWD_X_BIT
JOGREV_Y_BIT
JOGFWD_Y_BIT
JOGREV_Z_BIT
JOGFWD_Z_BIT
JOG_ZERO
JOG_POT
SOFT RESET
FEED HOLD
CYCLE START
SPINDLE ON/OFF
LED RUN
LED ALARM
DVcc
PL5
JOG PAD
PL1
16WP
SW4a
Y+
SW2a
X-
SW6a
Y-
SW7a
X+
SW10a
Z+
SW11a
Z-
SW1a
RESET_STOP
SW8a
FEED_HOLD
SW3a
RUN_CONTINUE
SW5a
WORK_ZERO
SW9a
SPINDLE_ON