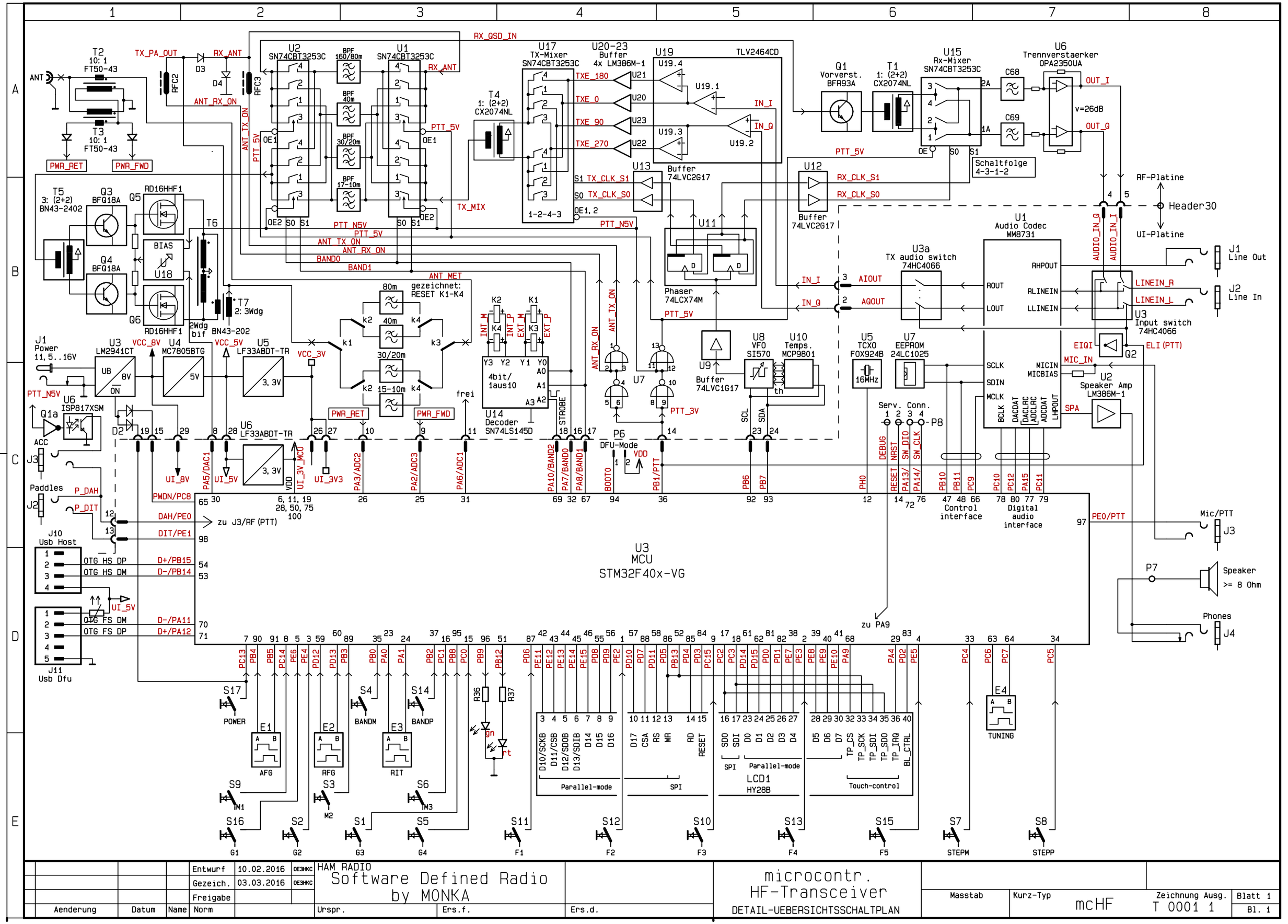
U3
MCU
STM32F40x-VG
U3
Audio Codec
WM8731
U3a
TX audio switch
74HC4066
U3
Input switch
74HC4066
U2
Speaker Amp
LM386M-1
U5
TCXO
FOX924B
16MHz
U7
EEPROM
24LC1025
U8
VFO
SI570
U10
Temps.
MCP9801
U9
Buffer
74LVC1G17
U11
Phaser
74LCX74M
U12
Buffer
74LVC2G17
U13
Buffer
74LVC2G17
U14
Decoder
SN74LS145D
U15
Rx-Mixer
SN74CBT3253C
U17
TX-Mixer
SN74CBT3253C
U19
TLV2464CD
U20-23
Buffer
4x LM386M-1
U6
Trennverstaerker
OPA2350UA
Q1
Vorverst.
BFR93A
T1
1: (2+2)
CX2074NL
T2
10: 1
FT50-43
T3
10: 1
FT50-43
T4
1: (2+2)
CX2074NL
T5
3: (2+2)
BN43-2402
T6
T7
2: 3Wdg
BN43-202
U1
SN74CBT3253C
U2
SN74CBT3253C
U4
MC7805BTG
U5
LF33ABDT-TR
U6
LF33ABDT-TR
U6
ISP817XSM
U3
LM2941CT
J1
Power
11, 5..16V
P6
DFU-Mode
Serv. Conn.
P8
Header30
RF-Platine
UI-Platine
J1
Line Out
J2
Line In
J3
Mic/PTT
P7
Speaker
>= 8 Ohm
J4
Phones
J10
Usb Host
J11
Usb Dfu
Paddles
ACC
Schaltfolge
4-3-1-2
v=26dB
1-2-4-3
Control
interface
Digital
audio
interface
Parallel-mode
SPI
LCD1
HY28B
Touch-control
TUNING
AFG
RFG
RIT
BANDM
BANDP
POWER
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
F1
F2
F3
F4
F5
G1
G2
G3
G4
STEPM
STEPP
TX_PA_OUT
RX_ANT
RX_QSD_IN
ANT_RX_ON
ANT_TX_ON
PTT_5V
PTT_N5V
PTT_3V
TX_MIX
BAND0
BAND1
ANT_MET
PWR_RET
PWR_FWD
VCC_8V
VCC_5V
VCC_3V
UI_8V
UI_5V
UI_3V3
UI_3V_MCU
PWDN/PC8
DAH/PE0
DIT/PE1
PE0/PTT
zu J3/RF (PTT)
zu PA9
OTG HS DP
OTG HS DM
OTG FS DM
OTG FS DP
D+/PB15
D-/PB14
D-/PA11
D+/PA12
TXE_180
TXE_0
TXE_90
TXE_270
S1 TX_CLK_S1
S0 TX_CLK_S0
RX_CLK_S1
RX_CLK_S0
IN_I
IN_Q
AIOUT
AQOUT
AUDIO_IN_Q
AUDIO_IN_I
LINEIN_R
LINEIN_L
EIQI
ELI (PTT)
MIC_IN
SPA
OUT_I
OUT_Q
RHPOUT
RLINEIN
LLINEIN
ROUT
LOUT
MICIN
MICBIAS
SCLK
SDIN
MCLK
BCLK
DACDAT
DACLRC
ADCLRC
ADCDAT
LHPOUT
SCL
SDA
BOOT0
VDD
DEBUG
NRST
SW_DIO
SW_CLK
PA13/
PA14/
RESET
PH0
PB10
PB11
PC9
PC10
PC12
PA15
PC11
PB6
PB7
PB1/PTT
PA10/BAND2
PA7/BAND0
PA8/BAND1
PA5/DAC1
PA3/ADC2
PA2/ADC3
PA6/ADC1
K1
K2
K3
K4
INT_P
INT_M
EXT_P
EXT_M
4bit/
1aus10
80m
40m
30/20m
15-10m
gezeichnet:
RESET K1-K4
BIAS
RD16HHF1
Q3
BFQ18A
Q4
BFQ18A
Q5
Q6
2Wdg
bif
BN43-202
Q1a
D2
D3
D4
RFC2
RFC3
ANT
R36
R37
gn
rt
BPF
160/80m
BPF
40m
BPF
30/20m
BPF
17-10m
OE1
OE2
S0
S1
OE1, 2
frei
Entwurf
10.02.2016
Gezeich.
03.03.2016
Freigabe
Aenderung
Datum
Name
Norm
HAM RADIO
Software Defined Radio
by MONKA
Ursp.
Ers.f.
Ers.d.
microcontr.
HF-Transceiver
DETAIL-UEBERSICHTSSCHALTPLAN
Masstab
Kurz-Typ
mcHF
Zeichnung Ausg.
T 0001 1
Blatt 1
Bl. 1