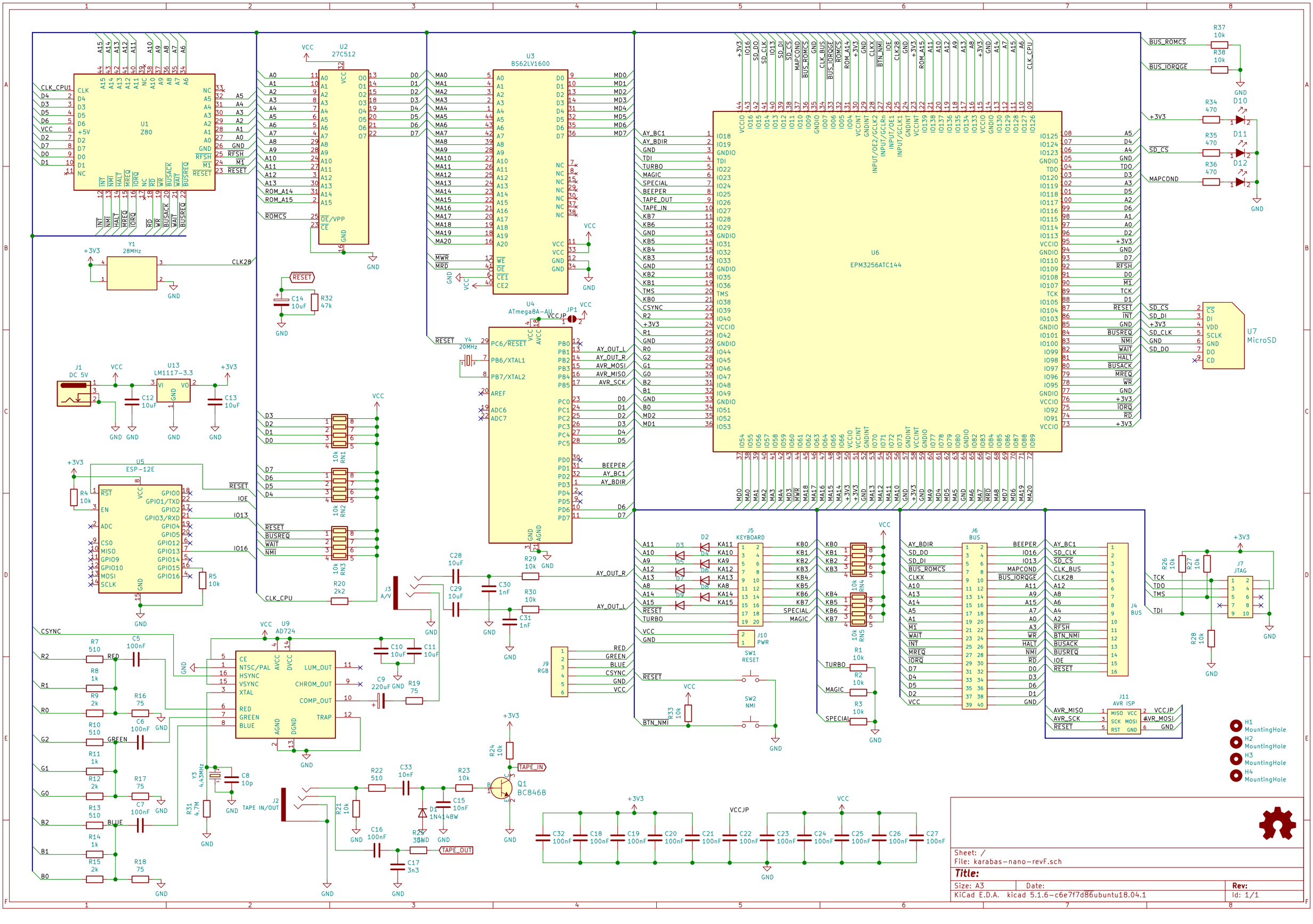
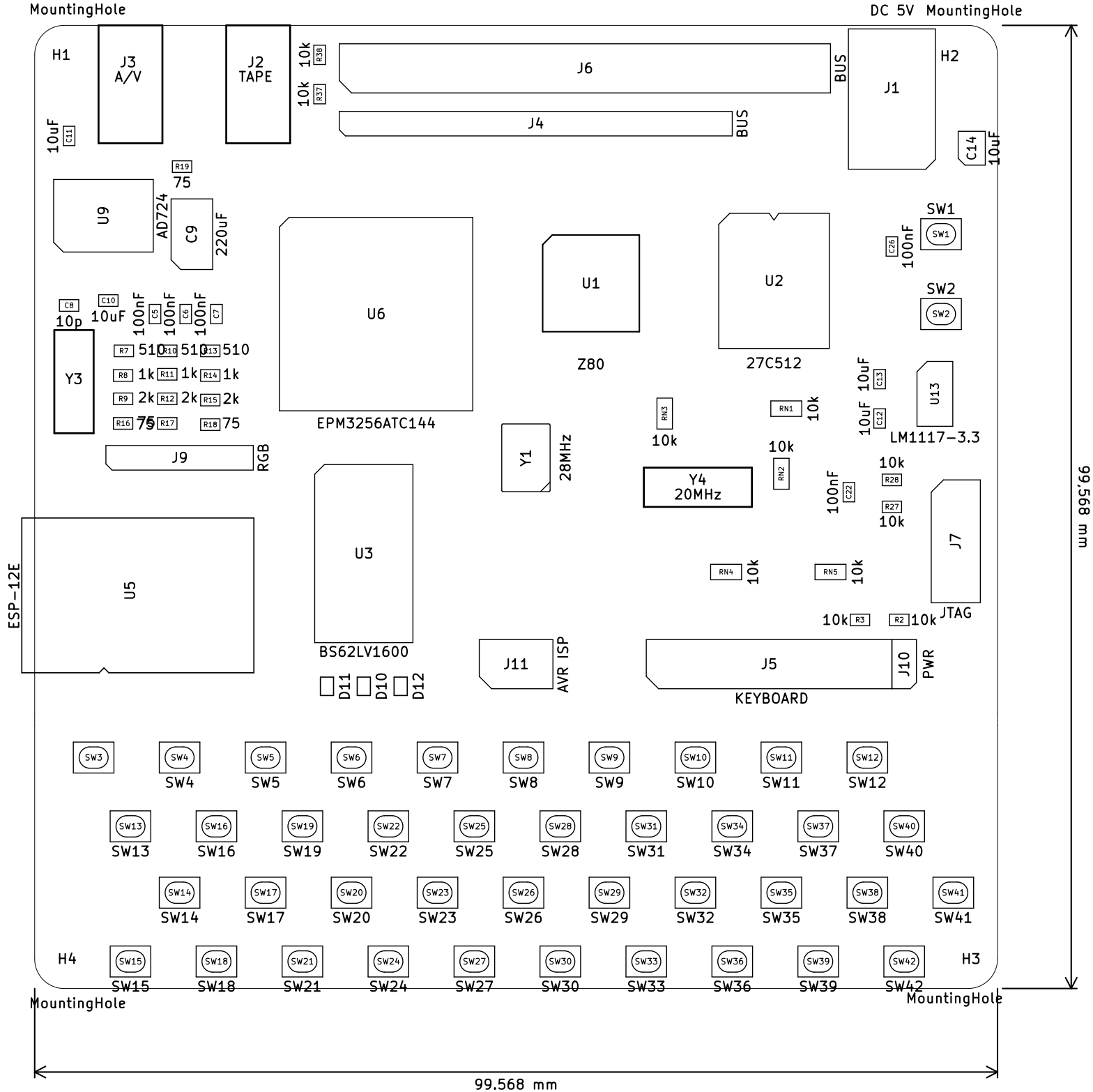

U1
Z80
U2
27C512
U3
BS62LV1600
U4
ATmega8A-AU
U5
ESP-12E
U6
EPM3256ATC144
U7
MicroSD
U9
AD724
U13
LM1117-3.3
Y1
28MHz
Y3
4.43MHz
Y4
20MHz
J1
DC 5V
J2
TAPE IN/OUT
J3
A/V
J4
BUS
J5
KEYBOARD
J6
BUS
J7
JTAG
J9
RGB
J10
PWR
J11
AVR ISP
SW1
RESET
SW2
NMI
Q1
BC846B
JP1
VCCJP
RN1
10k
RN2
10k
RN3
10k
RN4
10k
RN5
10k
D10
D11
D12
R37
10k
R38
10k
R34
470
R35
470
R36
470
BUS_ROMCS
BUS_IORQGE
SD_CS
MAPCOND
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
Sheet: /
File: karabas-nano-revF.sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1
Id: 1/1


MountingHole
DC 5V
MountingHole
H1
J3
A/V
J2
TAPE
10k
R38
10k
R37
J6
BUS
J4
BUS
J1
H2
10uF
C11
C14
10uF
R19
75
U9
AD724
C9
220uF
SW1
SW1
C26
100nF
SW2
SW2
C8
10p
C10
10uF
100nF
C5
100nF
C6
C7
U6
U1
U2
Y3
R7
510
R10
510
R13
510
R8
1k
R11
1k
R14
1k
R9
2k
R12
2k
R15
2k
R16
75
R17
R18
75
Z80
27C512
EPM3256ATC144
10uF
10uF
C13
C12
U13
LM1117-3.3
RN3
10k
RN1
10k
J9
RGB
Y1
28MHz
10k
RN2
Y4
20MHz
100nF
C22
10k
R28
10k
R27
J7
U5
ESP-12E
U3
RN4
10k
RN5
10k
10k
R3
R2
10k
JTAG
BS62LV1600
D11
D10
D12
J11
AVR ISP
J5
J10
PWR
KEYBOARD
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW16
SW19
SW22
SW25
SW28
SW31
SW34
SW37
SW40
SW14
SW17
SW20
SW23
SW26
SW29
SW32
SW35
SW38
SW41
H4
SW15
SW18
SW21
SW24
SW27
SW30
SW33
SW36
SW39
SW42
H3
MountingHole
MountingHole
99.568 mm
99.568 mm

1nF
C31
10uF
C29
10k
R21
R30
10k
10uF
C28
100nF
C16
33k
R25
3n3
C17
510
R22
C30
R29
10k
10nF
C33
1nF
1N4148W
D1
2k2
R20
C15
10nF
BC846B
R23
10k
C25
100nF
47k
R32
C20
C18
100nF
100nF
C19
100nF
C21
100nF
10k
R24
4,7M
R31
R33
10k
C27
100nF
SolderJumper_2_Open
U4
ATmega8A-AU
D9
1N4148W
D8
1N4148W
D7
1N4148W
D6
1N4148W
D5
1N4148W
D4
1N4148W
D3
1N4148W
D2
1N4148W
10k
R26
10k
R1
100nF
C24
100nF
C23
R5
10k
470
R36
470
R34
470
R35
10k
R4
100nF
C32
U7
MicroSD

Reference	Q-ty	Value	Footprint
C10 C11 C12 C13 C28 C29	6	10uF	0805
C14	1	10uF	Tantalum B
C15 C33	2	10nF	0805
C17	1	3n3	0805
C30 C31	2	1nF	0805
C16 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C32 C5 C6 C7	15	100nF	0805
C8	1	10p	0805
C9	1	220uF	Tantalum D
D1 D2 D3 D4 D5 D6 D7 D8 D9	9	1N4148W	SOD-123
D10 D11 D12	3	RED/GREEN/YELLOW	0805
J1	1	DC 5V	5x2.1mm jack
J10	1	PWR	1x02
J11	1	AVR ISP	2x03
J2	1	TAPE IN/OUT	TRRS SMD
J3	1	A/V	TRRS SMD
J4	1	BUS	1x16
J5	1	KEYBOARD	2x10
J6	1	BUS	2x20
J7	1	JTAG	2x05
J8	1	KEYBOARD	2x08
J9	1	RGB	1x06
Q1	1	BC846B	SOT-23-3
R10 R13 R22 R7	4	510	0805
R16 R17 R18 R19	4	75	0805
R20	1	2k2	0805
R1 R2 R3 R4 R5 R21 R23 R24 R26 R27 R28 R29 R30 R33 R37 R38	16	10k	0805
R25	1	33k	0805
R31	1	4,7M	0805
R32	1	47k	0805
R34 R35 R36	3	470	0805
R11 R14 R8	3	1k	0805
R12 R15 R9	3	2k	0805
RN1 RN2 RN3 RN4 RN5	5	10k	4x0612
SW1 — SW42	42	SPST PTS810	SPST PTS810
U1	1	Z84C0010AEG	QFP-44
U13	1	LM1117-3.3	SOT-223
U2	1	27C512	PLCC-32 SMD
U3	1	BS62LV1600	TSOP-II-44
U4	1	ATmega8A-AU	TQFP-32
U5	1	ESP8266	ESP-12F
U6	1	EPM3256ATC144	LQFP-144
U7	1	MicroSD	GCT-MEM2055-00-190-01-A
U9	1	AD724	SOIC-16W
Y1	1	28MHz	0705
Y3	1	4.43MHz	HC49US
Y4	1	20MHz or 24MHz	HC49US