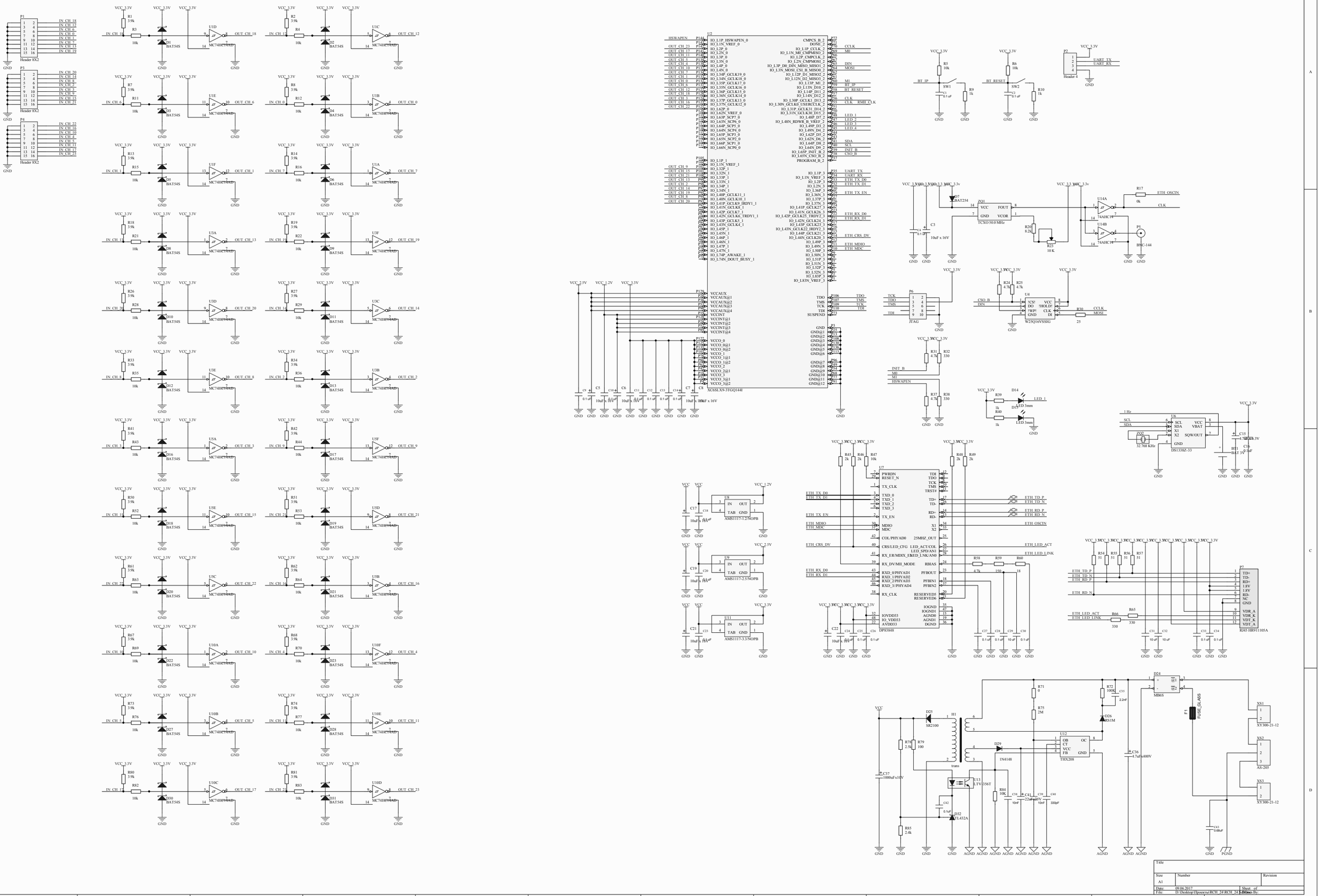
P1
Header 8X2
P3
Header 8X2
P4
Header 8X2
IN_CH_18
IN_CH_12
IN_CH_6
IN_CH_0
IN_CH_1
IN_CH_7
IN_CH_13
IN_CH_19
IN_CH_20
IN_CH_14
IN_CH_8
IN_CH_2
IN_CH_9
IN_CH_15
IN_CH_21
IN_CH_22
IN_CH_16
IN_CH_10
IN_CH_4
IN_CH_11
IN_CH_17
IN_CH_23
VCC_3.3V
GND
R1 3.9k
R2 3.9k
R3 10k
R4 10k
D1 BAT54S
D2 BAT54S
U1D
U1C
MC74HCT14AD
OUT_CH_18
OUT_CH_12
R7 3.9k
R8 3.9k
R11 10k
R12 10k
D3 BAT54S
D4 BAT54S
U1E
U1B
OUT_CH_6
OUT_CH_0
R13 3.9k
R14 3.9k
R15 10k
R16 10k
D5 BAT54S
D6 BAT54S
U1F
U1A
OUT_CH_1
OUT_CH_7
R18 3.9k
R19 3.9k
R21 10k
R22 10k
D8 BAT54S
D9 BAT54S
U3A
U3F
OUT_CH_13
OUT_CH_19
R26 3.9k
R27 3.9k
R28 10k
R29 10k
D10 BAT54S
D11 BAT54S
U3D
U3C
OUT_CH_20
OUT_CH_14
R33 3.9k
R34 3.9k
R35 10k
R36 10k
D12 BAT54S
D13 BAT54S
U3E
U3B
OUT_CH_8
OUT_CH_2
R41 3.9k
R42 3.9k
R43 10k
R44 10k
D16 BAT54S
D17 BAT54S
U5A
U5F
OUT_CH_3
OUT_CH_9
R50 3.9k
R51 3.9k
R52 10k
R53 10k
D18 BAT54S
D19 BAT54S
U5E
U5D
OUT_CH_15
OUT_CH_21
R61 3.9k
R62 3.9k
R63 10k
R64 10k
D20 BAT54S
D21 BAT54S
U5C
U5B
OUT_CH_22
OUT_CH_16
R67 3.9k
R68 3.9k
R69 10k
R70 10k
D22 BAT54S
D23 BAT54S
U10A
U10F
OUT_CH_10
OUT_CH_4
R73 3.9k
R74 3.9k
R76 10k
R77 10k
D27 BAT54S
D28 BAT54S
U10B
U10E
OUT_CH_5
OUT_CH_11
R80 3.9k
R81 3.9k
R82 10k
R83 10k
D30 BAT54S
D31 BAT54S
U10C
U10D
OUT_CH_17
OUT_CH_23
U2
XC6SLX9-3TQG144I
HSWAPEN
OUT_CH_9
OUT_CH_17
OUT_CH_11
OUT_CH_5
OUT_CH_4
OUT_CH_10
OUT_CH_7
OUT_CH_1
OUT_CH_6
OUT_CH_12
OUT_CH_18
OUT_CH_3
OUT_CH_15
OUT_CH_21
OUT_CH_16
OUT_CH_22
OUT_CH_8
OUT_CH_14
OUT_CH_20
OUT_CH_13
OUT_CH_19
OUT_CH_2
OUT_CH_8
IO_L1P_HSWAPEN_0
IO_L1N_VREF_0
IO_L2P_0
IO_L2N_0
IO_L3P_0
IO_L3N_0
IO_L4P_0
IO_L4N_0
IO_L34P_GCLK19_0
IO_L34N_GCLK18_0
IO_L35P_GCLK17_0
IO_L35N_GCLK16_0
IO_L36P_GCLK15_0
IO_L36N_GCLK14_0
IO_L37P_GCLK13_0
IO_L37N_GCLK12_0
IO_L62P_0
IO_L62N_VREF_0
IO_L63P_SCP7_0
IO_L63N_SCP6_0
IO_L64P_SCP5_0
IO_L64N_SCP4_0
IO_L65P_SCP3_0
IO_L65N_SCP2_0
IO_L66P_SCP1_0
IO_L66N_SCP0_0
IO_L1P_1
IO_L1N_VREF_1
IO_L32P_1
IO_L32N_1
IO_L33P_1
IO_L33N_1
IO_L34P_1
IO_L34N_1
IO_L40P_GCLK11_1
IO_L40N_GCLK10_1
IO_L41P_GCLK9_IRDY1_1
IO_L41N_GCLK8_1
IO_L42P_GCLK7_1
IO_L42N_GCLK6_TRDY1_1
IO_L43P_GCLK5_1
IO_L43N_GCLK4_1
IO_L45P_1
IO_L45N_1
IO_L46P_1
IO_L46N_1
IO_L47P_1
IO_L47N_1
IO_L74P_AWAKE_1
IO_L74N_DOUT_BUSY_1
CMPCS_B_2
DONE_2
IO_L1P_CCLK_2
IO_L1N_M0_CMPMISO_2
IO_L2P_CMPCLK_2
IO_L2N_CMPMOSI_2
IO_L3P_D0_DIN_MISO_MISO1_2
IO_L3N_MOSI_CSI_B_MISO0_2
IO_L12P_D1_MISO2_2
IO_L12N_D2_MISO3_2
IO_L13P_M1_2
IO_L13N_D10_2
IO_L14P_D11_2
IO_L14N_D12_2
IO_L30P_GCLK1_D13_2
IO_L30N_GCLK0_USERCCLK_2
IO_L31P_GCLK31_D14_2
IO_L31N_GCLK30_D15_2
IO_L48P_D7_2
IO_L48N_RDWR_B_VREF_2
IO_L49P_D3_2
IO_L49N_D4_2
IO_L62P_D5_2
IO_L62N_D6_2
IO_L64P_D8_2
IO_L64N_D9_2
IO_L65P_INIT_B_2
IO_L65N_CSO_B_2
PROGRAM_B_2
IO_L1P_3
IO_L1N_VREF_3
IO_L2P_3
IO_L2N_3
IO_L36P_3
IO_L36N_3
IO_L37P_3
IO_L37N_3
IO_L41P_GCLK27_3
IO_L41N_GCLK26_3
IO_L42P_GCLK25_TRDY2_3
IO_L42N_GCLK24_3
IO_L43P_GCLK23_3
IO_L43N_GCLK22_IRDY2_3
IO_L44P_GCLK21_3
IO_L44N_GCLK20_3
IO_L49P_3
IO_L49N_3
IO_L50P_3
IO_L50N_3
IO_L51P_3
IO_L51N_3
IO_L52P_3
IO_L52N_3
IO_L83P_3
IO_L83N_VREF_3
VCCAUX
VCCAUX@1
VCCAUX@2
VCCAUX@3
VCCAUX@4
VCCINT
VCCINT@1
VCCINT@2
VCCINT@3
VCCINT@4
VCCO_0
VCCO_0@1
VCCO_0@2
VCCO_1
VCCO_1@1
VCCO_1@2
VCCO_2
VCCO_2@1
VCCO_3
VCCO_3@1
VCCO_3@2
GND
GND@1
GND@2
GND@3
GND@4
GND@5
GND@6
GND@7
GND@8
GND@9
GND@10
GND@11
GND@12
TDO
TMS
TCK
TDI
SUSPEND
CCLK
M0
DIN
MOSI
M1
BT_IP
BT_RESET
CLK
CLK_RMII_CLK
LED_1
LED_2
LED_3
LED_4
SDA
SCL
INIT_B
CSO_B
UART_TX
UART_RX
ETH_TX_D0
ETH_TX_D1
ETH_TX_D2
ETH_TX_D3
ETH_TX_EN
ETH_MDIO
ETH_MDC
ETH_CRS_DV
ETH_RX_D0
ETH_RX_D1
ETH_RX_D2
ETH_RX_D3
ETH_RX_EN
ETH_CLK
VCC_2.5V
VCC_1.2V
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
10uF x 16V
0.1 uF
R5 10k
R6 10k
SW1
SW2
R9 1k
R10 1k
C1 0.1 uF
C2 0.1 uF
P2
Header 4
D7 BAT254
ZQ1
TCXO 50.0 MHz
C3 10uF x 16V
C4 0.1 uF
R20 8.2k
R23 10 K
U14A
U14B
74AHCT14
R17 0k
ETH_OSCIN
CLK
P5
BNC-144
P6
JTAG
TCK
TDO
TMS
TDI
R24 4.7k
R25 4.7k
U4
W25Q16VSSIG
CSO_B
DIN
R30 25
CCLK
MOSI
R31 4.7k
R32 330
R37 4.7k
R38 330
INIT_B
M0
M1
HSWAPEN
D14
D15
R39 1k
R40 1k
LED 3mm
LED_1
U6
DS1338Z-33
ZQ2
32.768 KHz
BT1 BAT 3V
C15 4.7uF x 3.3V
C16 0.1uF
SCL
SDA
1 Hz
U7
DP83848
PWRDN
RESET_N
TX_CLK
TXD_0
TXD_1
TXD_2
TXD_3
TX_EN
MDIO
MDC
COL/PHYAD0
CRS/LED_CFG
RX_ER/MDIX_EN
RX_DV/MII_MODE
RXD_0/PHYAD1
RXD_1/PHYAD2
RXD_2/PHYAD3
RXD_3/PHYAD4
RX_CLK
IOVDD33
IO_VDD33
AVDD33
TDI
TDO
TCK
TMS
TRST#
TD+
TD-
RD+
RD-
X1
X2
25MHZ_OUT
LED_ACT/COL
LED_SPD/AN1
LED_LNK/AN0
RBIAS
PFBOUT
PFBIN1
PFBIN2
RESERVED5
RESERVED6
IOGND
IGGND1
AGND0
AGND1
DGND
ETH_TD_P
ETH_TD_N
ETH_RD_P
ETH_RD_N
ETH_OSCIN
ETH_LED_ACT
ETH_LED_LINK
R45 2k
R46 2k
R47 10k
R48 2k
R49 2k
R58 4.7k
R59 150
R60 18
C17 10uF x 16V
C18 0.1uF
C19 10uF x 16V
C20 0.1uF
C21 10uF x 16V
C22 10uF x 16V
C23 0.1uF
C24 0.1uF
C25 0.1uF
C26 0.1uF
C27 0.1uF
C28 0.1uF
C29 10 uF
C30 0.1uF
U8
U9
U11
IN
OUT
TAB
AMS1117-1.2/NOPB
AMS1117-2.5/NOPB
AMS1117-3.3/NOPB
P7
RJ45 HR911105A
R54 51
R55 51
R56 51
R57 51
R66 330
R65 330
C31
C32
C33
C34
10 uF
0.1 uF
D25
SR2100
H1
trans
R71 0
R75 2M
R72 100K
C35 2.2nF
D26 RS1M
U12
THX208
D29
1N4148
U13
TLV1356T
R78 2.5k
R79 100
R84 10K
C37 1000uF x 10V
C38 50nF
C41 22uF x 35V
C39 10nF
C40 330pF
C42 0.5uF
D32 TL432A
R85 2.4k
C36 4.7uF x 400V
D24
MB6S
F1 FUSE_GLASS
XS1
XS2
XS3
XY300-21-12
AS-205
C43 0.68uF
AGND
PGND
Title
Size A1
Number
Revision
Date: 09.06.2017
Sheet of
File: D:\Desktop\Проекты\RCH_24\RCH_24.SchDoc
Drawn By: