POWER SUPPLY
MBR1405FT1G
D8
V2
U3 KIA7812
IN OUT
GND
C9 4.7u
C12 4.7u
C14 22u
+12V
LD1
Red
R20 10k
0V
U4 LP2985A-33DBV
VIN VOUT
ON/OFF
BYP GND
C7 1u
C10 10n
C16 1u
+3.3V
U5 LP2985A-50DBV
C8 1u
C11 10n
C17 1u
+5V
U7 REF3333AIDBZR
C20 1u
J1
+3.3V
SWCLK
GND
SWDIO
J2
GND
UART_TX
UART_RX
+12V
CON_RX
CON_TX
CON_+12
R24 100
R25 10
UART1_RX
UART1_TX
U2 NUP4202
I/O1 I/O4
VN VP
I/O2 I/O3
Linear Regulator 36V 8A
Q2 BSS139
R3 100k
R7 1k
R8 100
Q5 BCP56
Q1
ON_OFF
R17 10
C5 1u
VG
B1 VG
V4
B2 V4
D1 1N4148W
Q6 IRF3710
R10 2k2
MBRF2060
D5A
D5B
V3
B3 V3
D2 1N4148W
Q7 IRF3710
R11 2k2
D6A
D6B
V2
B4 V2
D3 1N4148W
Q8 IRF3710
R12 2k2
D7A
D7B
V1
B5 V1
D4 1N4148W
Q9 IRF3710
R13 2k2
R14 4k7
B6 GND
OUT_POS
B7
OUT_NEG
B8
+3.3V
R9 2k2
Q3
Q4
U_SET
U1D
C3 1n
C1 1n
I_SET
U1B
C2 1n
R1 2k2
R2 2k2
U1C
CC_CV
R15 120k
R18 10k
U_OFFSET
U1A AD8608
I_MEAS
R16 120k
R19 10k
C4 1u
C6 100n
U6 INA226
A1 A0 Alert SDA SCL
IN+ IN- VBUS GND VS
ALURT
I2C1_SDA
I2C1_SCL
R21 0.082
C13 1u
C15 100n
R26 10k
R28 100k
U8B
R27 10k
R29 100k
+3.3V
R22 10k
R23 62
C221u
C23 1u
U8A AD8606
C19 100n
20mV
U_OFFSET
V4
R24 20k
UDC_MEAS
R25 1k
C18 22n
MCU Signals
U11 STM32F373CCT6
VBAT
PC13
PC14
PC15
PF0
PF1
NRST
VSSA/VREF-
VDDA/VREF+
PA0
PA1
PA2
PA3
PA4
PA5
PA6
VDD_2
PB0
PB1
PB2
PE8
PE9
VSSSD/VREFSD-
VDDSD
VDD_1
VSS_1
PB9
PB8
BOOT0
PB7
PB6
PB5
PB4
PB3
PA15
PA14
PF7
PF6
PA13
PA12
PA11
PA10
PA9
PA8
PD8
PB15
PB14
VREFSD+
RCC_OSC_IN
RCC_OSC_OUT
NRST
CC_CV
DAC1_OUT - I_SET
DAC2_OUT - U_SET
SDADC1_IN4P -> UDC_MEAS
I_SET
U_SET
U_MEAS
I_MEAS
R30 100
R31 100
SDADC1_IN6P
SDADC1_IN5P
UDC_MEAS
C25 220p
C28 220p
ON_OFF
SWCLK
SWDIO
UART2_TX
LED1
FAN_PWM
UART1_RX
UART1_TX
C26 16.8p RCC_OSC_IN
X1
24MHZ
C27 16.8p RCC_OSC_OUT
C31 100n
C33 100n
C35 4.7u
C37 100n
C38 100n
C39 100n
NRST
C40 100n
LD2
Blue
R36 1k
R37 2k2
R38 2k2
I2C1_SDA
I2C1_SCL
Cooler Regulator
+12V
C23 22u
U10 LMC7101
Q10 IRFHM9331
FAN_PWM
R32 10k
C24 1u
R35 3k3
C30 100p
R34 1k
FAN_P
J3
FAN_N
C32 22u
C34 22u
C36 100n
Temperature sensor
U9 DS18B20
GND
DQ
VDD
R33 1k
C29 1u
UART2_TX
Title PS3604LR
Size: A3
Revision 2.1
Date: 2018-09-19
Time: 1:46:19
Sheet 1 of 1
File: PS3604LR.SchDoc
Ukraine
Kharkiv
Storozhenko Roman
Cannot open file
D:\Radio\Devices\PS3608
U:\lovrmr\g3627_altium.

View from Top side (Scale 2:1)

View from Bottom side (Scale 2:1)

View from Front side (Scale 2:1)

Manufacturer Part Number	Component Type	Footprint	Mfg Partno	Mfg Description	Quantity
C1, C2	C - Cap	0805mm	CL21C 101J-C-L Pack-1	Capacitor Ceramic 100pF 50V C0G ±5%	2
C3	C - Cap	0805mm	CL21C 102J-C-L Pack-1	Capacitor Ceramic 1000pF 50V C0G ±5%	1
C4, C5	Cap, Pol1	3216mm	EEA-GA1A101P-L Pack-1	Capacitor Aluminum 100uF 10V ±20%	2
C6-C10, C14-C17, C20, C21, C24, C26	C	0402mm/1005mm	C1005_NP_NPO_PN_STD	50V Multilayer Chip Ceramic Capacitor	15
C11, C12, C18, C19, C22, C23, C25, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66,

POS
NEG
GND
V1
V2
V3
V4
VG
J1
J2
J3
PS3604LR V2.1

P
N
PS3604LR V2.1
DEL
C37
C38
C35
C33
C39
C31
C18
C25
C28
C3
C6
C4
U6
C15
C13
R21
U2
R5
R4
R6
12V
RX
TX
GND